

*You will do
better with
"TOLEDO" TOOLS
AND POWER
MACHINES*

"TOLEDO"

TRADE MARK



REGISTERED
U. S. PAT. OFF.

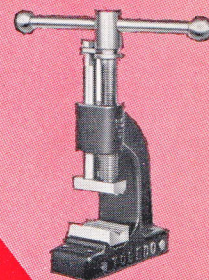
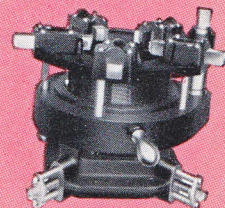
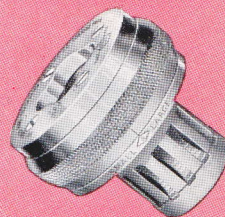
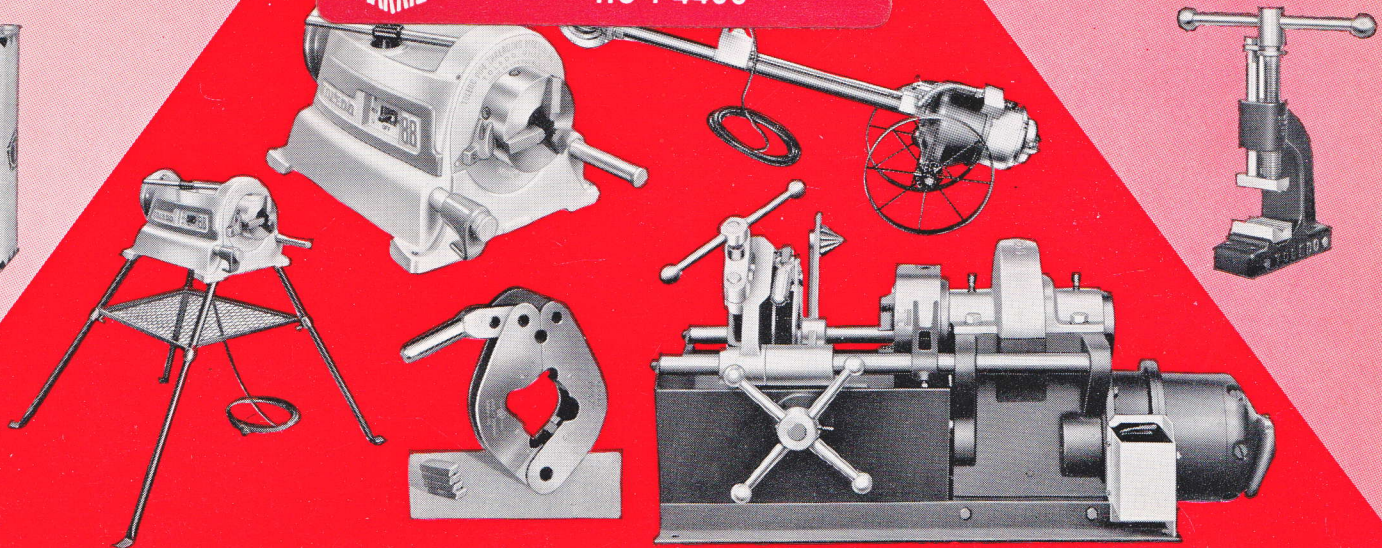
CATALOG 54

FOR
SERVICE
CALL
HARRIS

HARRIS PUMP & SUPPLY CO.

PITTSBURGH 3, PA.

HU-1-4400



**"TOLEDO" Wrenches comply with Federal Specifications
EGGG-W-651a. Type II, Heavy-Duty.
End Wrench - Fig. 7, Type VI.**

**"TOLEDO" Pipe Threaders comply with Federal Specifications
GGG-T-581a.**

**Nos. 00, 11 and 12 Ratchet Threaders,
Figure 5, Type III, Class 1.**

Nos. 30, 31 3-way Threaders, Figure 6, Type III, Class 2.

**Nos. 1, 1A, 1BR Ratchet Threaders, Figure 8 and 9,
Type III, Class 4.**

Simpack Ratchet Threader, Figure 12, Type III, Class 5.

**Nos. 2, 2BR, 25BR, 2½, 3, 4 Geared Threaders
Figure 13, Type III, Class 6.**

"TOLEDO"

TRADE-MARK



REGISTERED
U.S. PAT. OFFICE

BUILDER OF

FINE PIPE TOOLS

FOR OVER

50 YEARS

THIS CATALOGUE SHOWS THE NEW AND GROWING TOLEDO
LINE — RECOGNIZED BY EXPERIENCED WORKMEN AS SUPREME

CATALOGUE 54

THE TOLEDO PIPE THREADING MACHINE CO.

1445 SUMMIT ST.

TOLEDO, OHIO, U.S.A.

Cable Address — "Threading-Toledo"

INDEX

Pipe Wrenches	3	No. 2½ Geared, 5" & 6"	12
No. 20 Pipe Cutter	4	No. 3 Geared, 5", 6", 8"	12
No. 101 Adj. Bolt Die Stock	5	No. 4 Geared, 10" & 12"	12
No. 102 Adj. Bolt Die Stock	5	No. 40 Pipe Cutter, 2" to 4"	13
No. 101R Adj. Bolt Die Heads	5	No. 80 Pipe Cutter, 4½" to 8"	13
No. 102R Adj. Bolt Die Heads	5	No. 250 Pipe Cutter, 2½" to 6"	13
No. 00 Ratchet, ⅛" to ¾"	6	No. 300 Pipe Cutter, 4½" to 8"	13
No. 11 Ratchet, ⅛" to 1¼"	6	No. 350 Pipe Cutter, 7" to 10"	13
No. 12 Ratchet, ⅛" to 2"	6	No. 400 Pipe Cutter, 9" to 12"	13
No. 30—3-Way, ⅜" to ¾"	7	Standard Power Drive	14
No. 31—3-Way, ½" to 1"	7	Universal Power Drive	14
No. 600 Tubing Cutter	7	No. 00 Pipe Vise, ⅛" to 1½"	15
No. 182 Reamer, ⅛" to 2"	8	No. 0 Pipe Vise, ⅛" to 2½"	15
No. 383 Reamer, ⅜" to 3"	8	No. 3 Pipe Vise, ⅛" to 4½"	15
Ratchet Boring Tool	8	No. 9 Bench and Vise, 2" to 12"	15
Simpact, 1" to 2"	9	No. 88 Power Drive	16
No. 1—Plain, 1" to 2"	10	Thread Cutting Oil	16
No. 1A—Ratchet, 1" to 2"	10	No. 999 Pipe Machine	17
No. 1BR—Ratchet, 1" to 2"	10	2" High Speed Machine	19
No. 2 Geared, 2½" to 4"	11	No. 1-2-4 Pipe Machine	21
No. 2BR Geared, 2½" to 4"	11	Rock Drill Machine	23
No. 25BR Geared, 2½" to 6"	12	Repair Information	25
		Code	27

REPAIR PARTS

Repair parts are not shown in this catalogue but in a separate parts booklet, and it is sent on request.

Prices are also shown in a separate price list, and it is sent on request.

PIPE WRENCHES

PAGE 3

WHEEL PIPE CUTTER

PAGE 4

BOLT DIES

PAGE 5

⅛"-1¼" THREADERS

TUBING CUTTER

PAGES 6-7

PIPE REAMERS

BORING TOOL

PAGE 8

1"-2" THREADERS

PAGES 9-10

2½"-12" THREADERS

PAGES 11-12

2"-12" CUTTERS

PAGE 13

POWER DRIVES

PAGE 14

PIPE VISES

WORK BENCHES

PAGE 15

No. 88

POWER DRIVE

PAGE 16

POWER

PIPE MACHINES

PAGES 17-22

ROCK DRILL

ROD MACHINES

PAGES 23-24

REPAIR DATA

PAGE 25

CODE

PAGES 27-28



— THE MARK OF QUALITY

"TOLEDO" is recognized by users of pipe tools and power machines as representing the last word in pipe threaders, pipe cutters and power pipe machines. It has achieved this reputation over a period of 50 years of honest effort in building a perfect product and the Trade Mark appears only on genuine "TOLEDO" tools and power machines.

In this new catalog we show you for the first time a number of new items of the "TOLEDO" line. The heavy-duty pipe wrenches that will meet every requirement of the most critical mechanic and workman. These wrenches are unconditionally guaranteed and are unequaled by any on the market today.

The new "TOLEDO" No. 20, $\frac{1}{8}$ " to 2", Pipe Cutter, shown on page 4, is a new addition to the expanding "TOLEDO" line. The SIMPACT tool, shown on page 9, which has proven so popular with thousands of owners, can now be furnished either with the three-jaw pipe holder or the quick-setting cam-type pipe holder.

On page 16, is shown the "TOLEDO" No. 88 High Speed Power Drive, a new, more powerful, fast, quality built power unit to operate hand pipe threading and cutting tools.

These new units as well as the other tools and machines shown assure you and every user of pipe tools, the most complete and finest line on the market today.

The name "TOLEDO" on pipe tools and power pipe machines means fine, dependable tools and machines—equipment that will give a purchaser years of efficient reliable service.

GUARANTEE

All genuine "TOLEDO" products are guaranteed against defects. If returned to us, cheapest way and transportation charges prepaid, and found by us to be defective, such defective material will be replaced or credited.

PRICES

All prices are subject to change without notice and as in the past, all orders are accepted only with the understanding that they will be shipped at the prices effective at time of shipment.



All TOLEDO Small Tools and Small Vises are packaged in strong bright red cartons, with yellow letters. They reach the trade clean and in perfect condition. Cartons may be opened for inspection.



HEAVY DUTY PIPE WRENCHES

UNCONDITIONALLY GUARANTEED

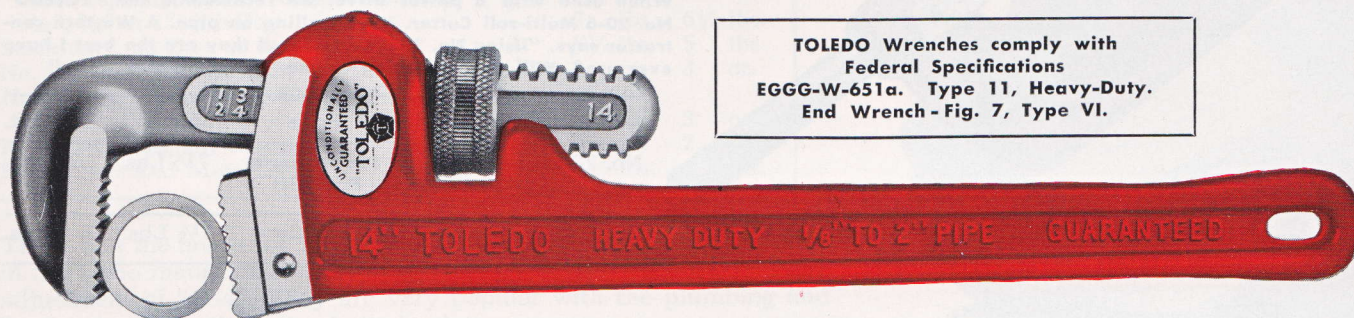
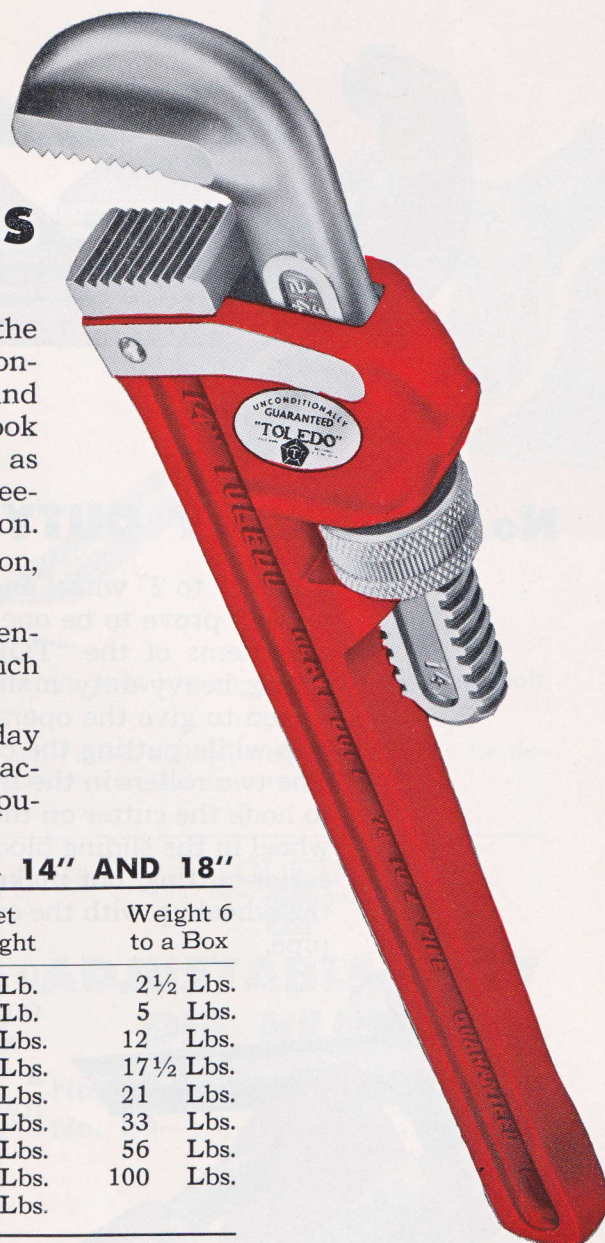
These new "TOLEDO" Heavy-Duty Pipe Wrenches are the finest pipe wrenches on the market today. They are unconditionally guaranteed and are built for hard, rugged and tough service. Both jaws are hardened steel and the hook jaw is the finest grade of drop forging and is marked off, as shown in the illustration, for each setting. The nut spins freely yet will not creep so the jaws will retain their set position. The one-piece improved spring assures better jaw action, more positive grip and easier release on all sizes.

The handle is unusually strong, of I-beam design, with enlarged end making it easy for the user to grip the wrench firmly.

No other heavy-duty pipe wrenches on the market today offer the user so much in dependable service and satisfaction. They are wrenches that are certain to grow in popularity with mechanics everywhere.

FURNISHED IN OFF-SET PATTERN IN SIZES 8", 10", 14" AND 18"

Size	Capacity Inches	Price	Net Weight	Weight 6 to a Box
6" Heavy-Duty, $\frac{3}{4}$		See Separate Price List	$\frac{1}{2}$ Lb.	2 $\frac{1}{2}$ Lbs.
8" Heavy-Duty, 1			$\frac{3}{4}$ Lb.	5 Lbs.
10" Heavy-Duty, 1 $\frac{1}{2}$			1 $\frac{3}{4}$ Lbs.	12 Lbs.
12" Heavy-Duty, 2			2 $\frac{3}{4}$ Lbs.	17 $\frac{1}{2}$ Lbs.
14" Heavy-Duty, 2			3 $\frac{1}{2}$ Lbs.	21 Lbs.
18" Heavy-Duty, 2 $\frac{1}{2}$			5 $\frac{1}{4}$ Lbs.	33 Lbs.
24" Heavy-Duty, 3			9 Lbs.	56 Lbs.
36" Heavy-Duty, 4 $\frac{1}{2}$			16 $\frac{1}{2}$ Lbs.	100 Lbs.
48" Heavy-Duty, 6			33 Lbs.	



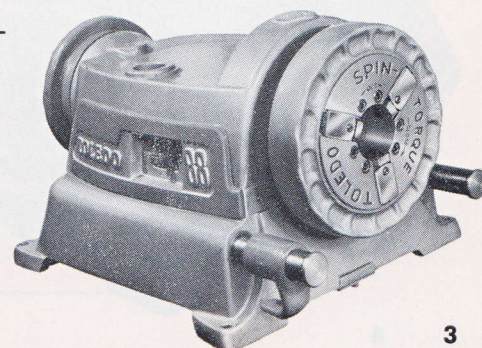
TOLEDO Wrenches comply with
Federal Specifications
EGGG-W-651a. Type 11, Heavy-Duty.
End Wrench - Fig. 7, Type VI.

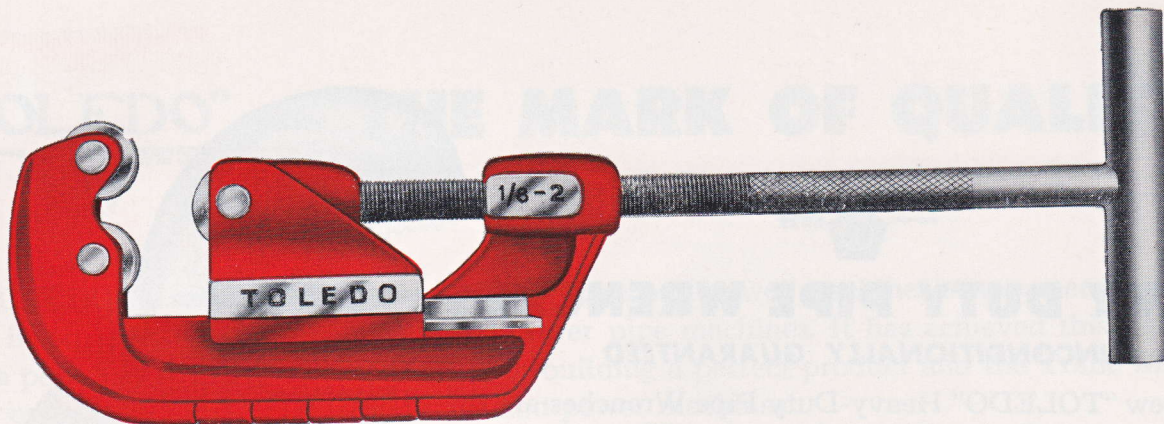
"TOLEDO'S"

NEW SENSATIONAL POWER UNIT

Light, Portable, Powerful and Fast.

See Complete Description Page 16.

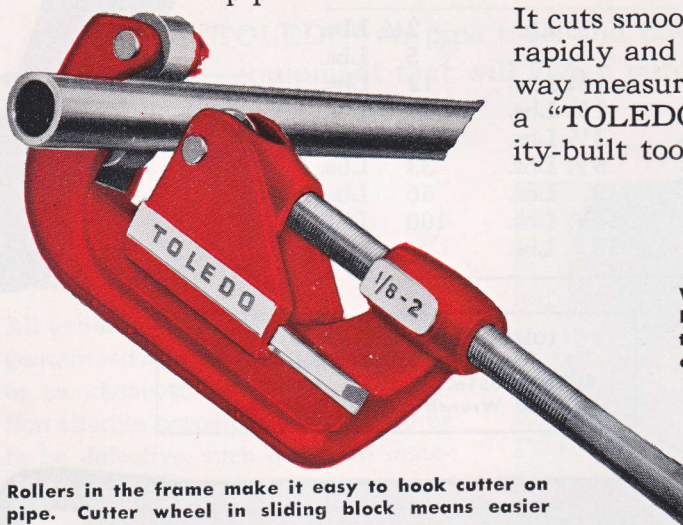




No. 20 HEAVY DUTY 1/8" TO 2" PIPE CUTTER

This 1/8" to 2" wheel and roller Pipe Cutter will prove to be one of the most popular items of the "TOLEDO" line. The strong, heavy-duty, malleable frame is designed to give the operator an easy hand grip while putting the cutter on the pipe. The two rollers in the frame make it easy to hook the cutter on the pipe. The cutter wheel in the sliding block not only means easier cutting, but makes it easier to line the wheel up with the cut off mark on the pipe.

It cuts smoothly and rapidly and in every way measures up to a "TOLEDO" quality-built tool.

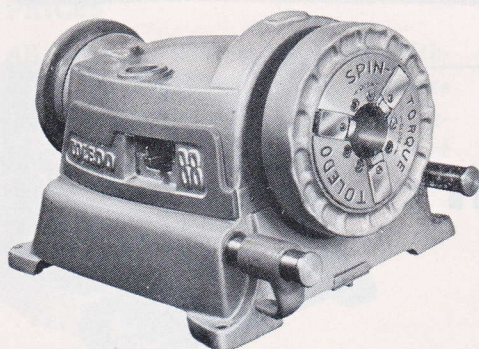


Rollers in the frame make it easy to hook cutter on pipe. Cutter wheel in sliding block means easier cutting.



When used with a power drive, we recommend the "TOLEDO" No. 20-6 Multi-roll Cutter. No spiralling on pipe. A Western contractor says, "Using No. 20-6 Cutters and they are the best I have ever used. Will do everything claimed for them and more."

	Price	Ship. Wt.	Net Wt.
No. 20 Heavy Duty Pipe Cutter	See Separate Price List	7½ Lbs.	7 Lbs.
No. 20-6 Heavy Duty Piper Cutter		8½ Lbs.	7½ Lbs.



"TOLEDO" No. 88 POWER DRIVE

(See Page 16)

You will like this new "TOLEDO" Power Unit. It will quickly add power to your hand threaders and cutters.



ADJUSTABLE BOLT DIE STOCKS

Capacity No. 101—

1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", N. C. (U. S. S.) or N. F. (S. A. E.)
3/8", 7/16", 1/2" Pump Rods.

Capacity No. 102—

3/4", 7/8", 1" N. C. (U. S. S.) or N. F. (S. A. E.)

The biggest improvement in bolt die stocks in many years. Small, easy-cutting die segments backed by a cam ring can be moved in or out for cutting undersize, oversize or standard threads. Unlike round button bolt dies, each cutting die cuts its full share at any setting. No other bolt die has this advantage.



Turn the knurled sizing ring for over, under or standard threads.

Compare these fine tools with any other bolt die set! These high quality tools are superior in performance and dependability—yet are priced at no more than ordinary bolt die stocks.

Furnished full-mounted or with stock and separate dies as may be desired. Red metal partitioned boxes can also be furnished.



	Price	Ship. Wt.	Net Wt.
No. 101 Stock with 1 Set Dies and Guide		3 lbs.	2 3/4 lbs.
No. 101 Complete with all of the following sizes (specify whether U.S.S. or S.A.E.) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" or 5/8" with Box		5 lbs.	4 1/2 lbs.
Stock only, no Dies or Guides		2 1/2 lbs.	2 1/4 lbs.
No. 101 Dies, any size, R.H., per set		2 oz.	2 oz.
No. 101 Left Hand U.S.S. Dies, 3/8", 1/2" or 5/8", only		2 oz.	2 oz.
No. 101 Guide, any size, each		1 oz.	1 oz.
Partitioned Red Metal Box		1 1/2 lbs.	1 1/4 lbs.
No. 102 Stock with 1 Set Dies and Guide		4 1/4 lbs.	3 1/4 lbs.
No. 102 Complete with all of the following sizes (specify whether U.S.S. or S.A.E.), 3/4", 7/8" or 1" with Box		7 lbs.	6 1/4 lbs.
Stock only, no Dies or Guides		5 1/4 lbs.	5 lbs.
No. 102 Dies, any size, R.H., per set		3 oz.	3 oz.
No. 102 Left Hand U.S.S. Dies, 3/4", 7/8" or 1" only		3 oz.	3 oz.
No. 102 Guides, any size, each		2 oz.	2 oz.
Partitioned Red Metal Box		3 1/2 lbs.	3 1/4 lbs.

See Separate Price List

These bolt die heads for use in No. 00 Ratchet Handle are adjustable in the same manner as the tools above—each with an over or under adjustment of 1/64". They are very popular with the plumbing and heating trade for threading bolts in close corners.



ADJUSTABLE BOLT DIE HEADS

No. 00—Cap. 1/4" to 1" Bolts

No. 00—3/8", 7/16", 1/2" Pump Rods.



RATCHET HANDLE COMPLETE

1/4", 5/16", 3/8", 7/16", 1/2", 9/16" or 5/8" No. 00 Adj. Die Head with N.C. or N.F. R.H. Die
3/4", 7/8" or 1" No. 00 Adj. Die Head with N.C. or N.F. R.H. Dies
3/8", 7/16" or 1/2" No. 00 Adj. Die Head with R.H. Pump Rod Dies
1/4", 5/16", 3/8", 7/16", 1/2", 9/16" or 5/8" No. 00 R.H. Bolt Dies, per set, each size
1/4", 7/8" or 1" No. 00 R.H. Bolt Dies, per set, each size

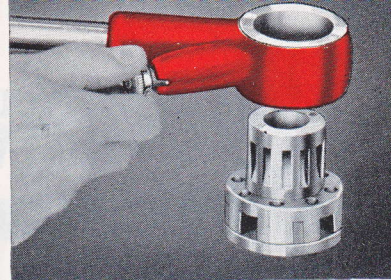
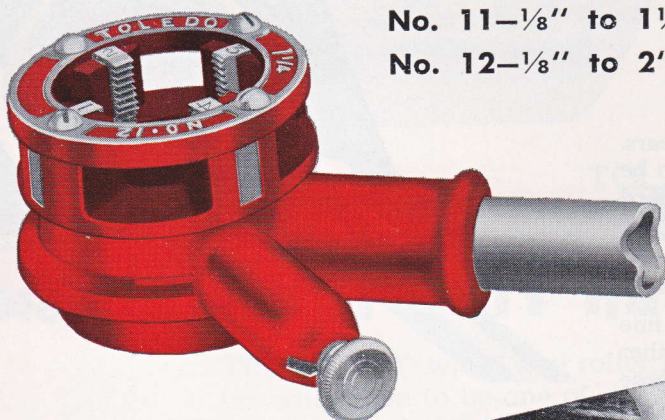
	Price	Net Wt.
1/4", 5/16", 3/8", 7/16", 1/2", 9/16" or 5/8" No. 00 Adj. Die Head with N.C. or N.F. R.H. Die		2 1/4 lbs.
3/4", 7/8" or 1" No. 00 Adj. Die Head with N.C. or N.F. R.H. Dies		1 3/4 lbs.
3/8", 7/16" or 1/2" No. 00 Adj. Die Head with R.H. Pump Rod Dies		2 1/4 lbs.
1/4", 5/16", 3/8", 7/16", 1/2", 9/16" or 5/8" No. 00 R.H. Bolt Dies, per set, each size		1 3/4 lbs.
1/4", 7/8" or 1" No. 00 R.H. Bolt Dies, per set, each size		3 3/4 lbs.

See Separate Price List

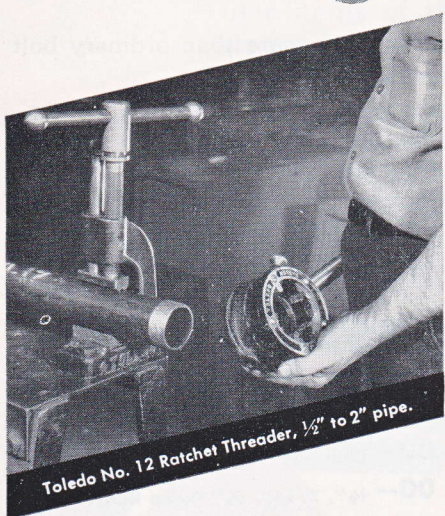


SMALL RATCHET PIPE THREADERS

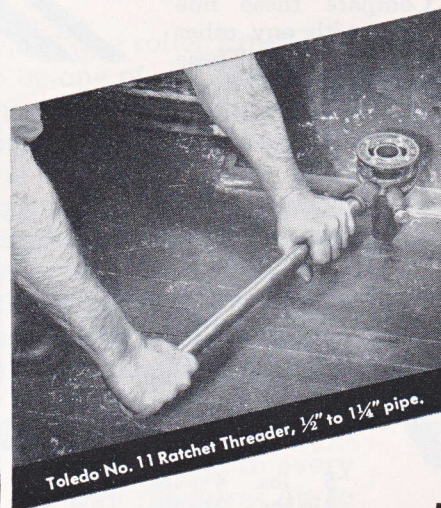
- No. 00— $\frac{1}{8}$ " to $\frac{3}{4}$ " Pipe, Incl.
 No. 11— $\frac{1}{8}$ " to $1\frac{1}{4}$ " Pipe, Incl.
 No. 12— $\frac{1}{8}$ " to 2" Pipe, Incl.



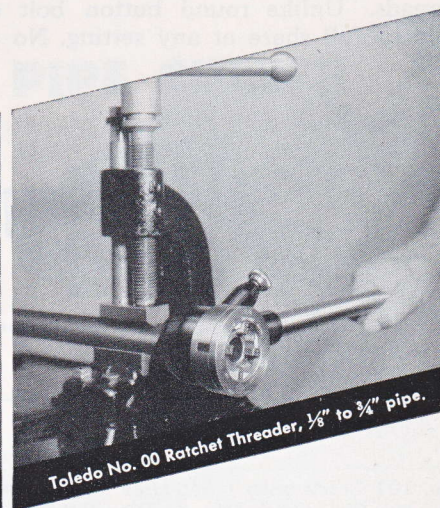
Just pull the ratchet pawl drop out head. Drop in another.



Toledo No. 12 Ratchet Threader, $\frac{1}{2}$ " to 2" pipe.



Toledo No. 11 Ratchet Threader, $\frac{1}{2}$ " to $1\frac{1}{4}$ " pipe.



Toledo No. 00 Ratchet Threader, $\frac{1}{8}$ " to $\frac{3}{4}$ " pipe.

**THESE SMALL
 COMPACT, EASY CUTTING
 DROP-HEAD TOOLS ARE IDEAL
 FOR BENCH WORK AND CLOSE CORNER
 JOBS. INSTANT DIE CHANGE. DIES EASILY REGROUND**

These drop head tools have for years been the most popular small ratchet threaders on the market. Cut easily, operate readily on a bench or in close quarters; instant change in die heads; dies may be reground when dull and are made of the finest tool steel, precision ground. Any combination of die heads can be furnished.

For No. 00 special $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{3}{4}$ " die heads and dies for cutting left hand threads; $\frac{3}{8}$ " to $\frac{3}{4}$ " die heads with inverted dies for threading close to wall or ceiling can be furnished. No. 11 $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" and $1\frac{1}{4}$ " electric conduit dies can be furnished, also 1" and $1\frac{1}{4}$ " left hand. No. 12 $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ " and 2" die heads and dies for threading electric conduit can also be furnished.

	Price	Ship. Wt.
No. 00— $\frac{1}{8}$ " to $\frac{3}{4}$ " Complete		9 $\frac{3}{4}$ lbs.
No. 00—Ratchet Handle Complete		3 lbs.
No. 00—Die Heads with R.H. Dies, $\frac{1}{8}$ ", $\frac{1}{4}$ " or $\frac{3}{8}$ "		2 lbs.
No. 00—Die Heads with R.H. Dies, $\frac{1}{2}$ " or $\frac{3}{4}$ "		2 lbs.
No. 11— $\frac{1}{8}$ " to $1\frac{1}{4}$ " Complete		18 lbs.
No. 11— $\frac{1}{4}$ " to $1\frac{1}{4}$ " Complete		15 lbs.
No. 11— $\frac{1}{2}$ " to $1\frac{1}{4}$ " Complete		13 lbs.
No. 11—Ratchet Handle Complete		4 lbs.
No. 11—Die Heads with Dies, $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " or $\frac{3}{4}$ "		2 lbs.
No. 11—Die Heads with Dies, 1" or $1\frac{1}{4}$ "		2 lbs.
No. 11—Die Heads with Dies, 1" or $1\frac{1}{4}$ " Left Hand		2 lbs.
No. 12— $\frac{1}{8}$ " to 2" Complete		35 lbs.
No. 12— $\frac{1}{4}$ " to 2" Complete		31 $\frac{1}{2}$ lbs.
No. 12— $\frac{1}{2}$ " to 2" Complete		26 lbs.
No. 12—Die Heads with Dies, $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " or $\frac{3}{4}$ "		3 lbs.
No. 12—Die Heads with Dies, 1" or $1\frac{1}{4}$ "		3 $\frac{1}{2}$ lbs.
No. 12—Die Heads with Dies, $1\frac{1}{2}$ "		3 $\frac{1}{2}$ lbs.
No. 12—Die Heads with Dies, 2"		3 $\frac{1}{2}$ lbs.

See Separate Price List

No. 00, No. 11 and No. 12 can be furnished in any capacity within their range by combining the ratchet with any combination of die heads and dies.

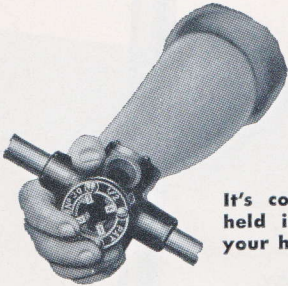
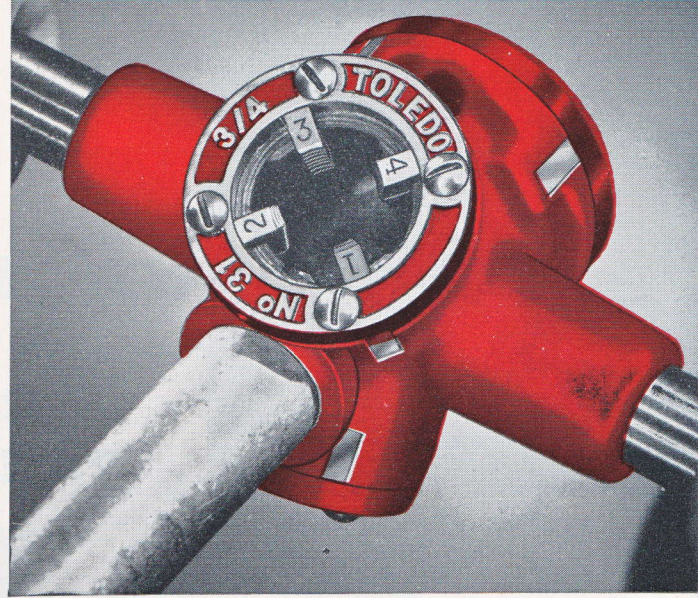


3-WAY PIPE THREADERS

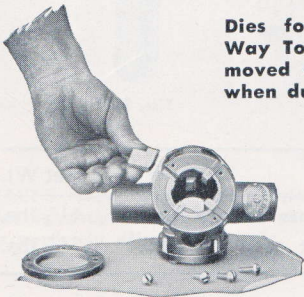
No. 30— $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " Pipe

No. 31— $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" Pipe

**Also equipped with
Dies for Threading
Conduit and Brass Pipe**



It's compact. Can be held in the palm of your hand!



Dies for TOLEDO 3-Way Tools easily removed and reground when dull.

These are the handiest, most convenient small threading tools for use where ratchet tools are not necessary. All dies on center thus assuring easier cutting. Dies can be reground or replaced at slight cost. No adjustments necessary and no loose parts. The tool body is designed to clear itself readily of chips and will not become clogged with dirt.

Both tools can be furnished at no extra cost with special dies that produce straight lock nut threads so desirable for the perfect conduit job. Also excellent tools for threading brass pipe.

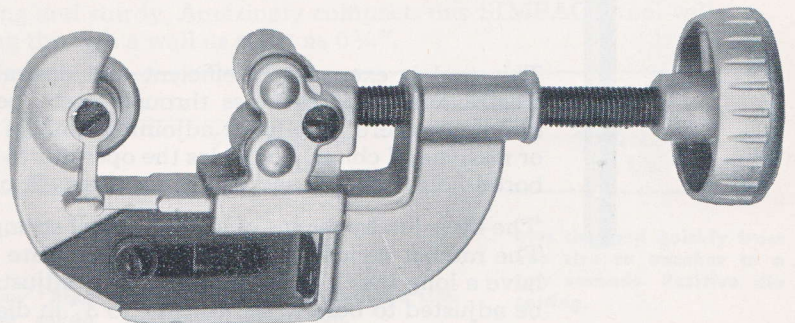
	Price	Ship. Wt.	Net Wt.
No. 30, Complete $\frac{3}{8}$ " to $\frac{3}{4}$ "	See Separate Price List	5 $\frac{1}{4}$ lbs.	4 $\frac{1}{2}$ lbs.
No. 31, Complete $\frac{1}{2}$ " to 1"		8 $\frac{1}{4}$ lbs.	7 lbs.
$\frac{3}{8}$ ", $\frac{1}{2}$ " or $\frac{3}{4}$ " Dies, R.H., per set, each size	2 oz.	2 oz.	2 oz.
1" Dies, per set	3 oz.	3 oz.	3 oz.



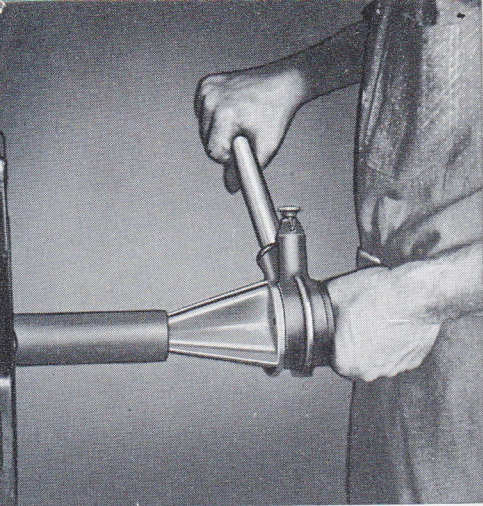
No. 600 TUBING CUTTER

Capacity $\frac{1}{8}$ " to 1" O.D.

This new "TOLEDO" Tubing Cutter handles brass and copper tubing easily and quickly. Rollers smooth edges of cut—helpful for soldering. Cutting wheel produces clean, true cuts. Sturdy construction, compact, light and strong. Handy reamer snaps out for use and back out of the way when not in use thus preventing injury to hands.



	Price	Ship. Wt.	Net Wt.
No. 600 Tubing Cutter—Cutter Wheel Only	See Separate Price List	1 Lb.	$\frac{3}{4}$ Lb.



Note the easy, natural way of holding Reamer



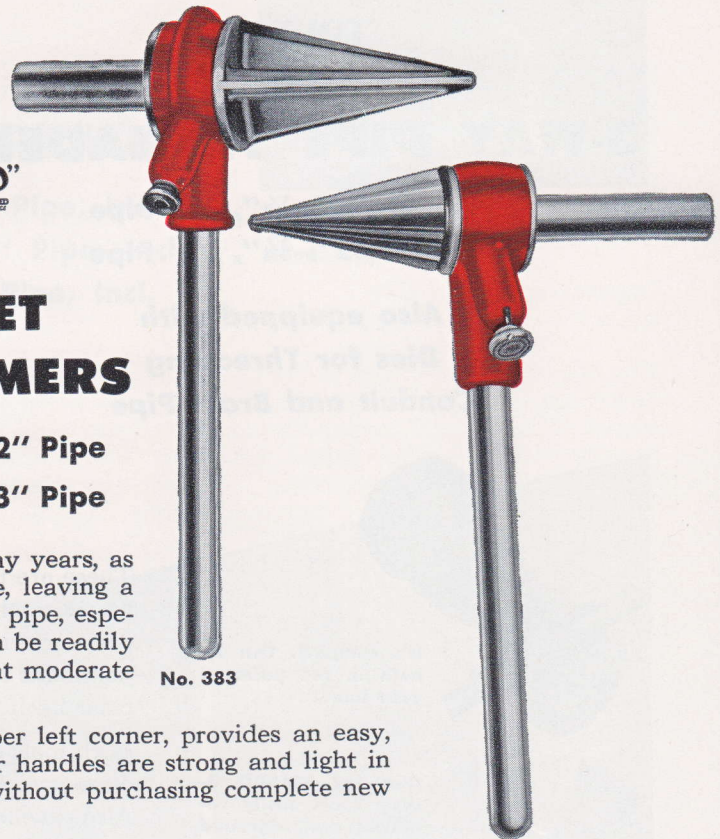
RATCHET PIPE REAMERS

No. 182— $\frac{1}{8}$ " to 2" Pipe

No. 383— $\frac{3}{8}$ " to 3" Pipe

These reamers have been popular with the trade for many years, as they feed easily into the pipe with only a slight pressure, leaving a smooth, clean cut. They will not gouge their way into the pipe, especially when used with power vise stands. Cutting teeth can be readily re-sharpened when dull or new reamer heads purchased at moderate cost.

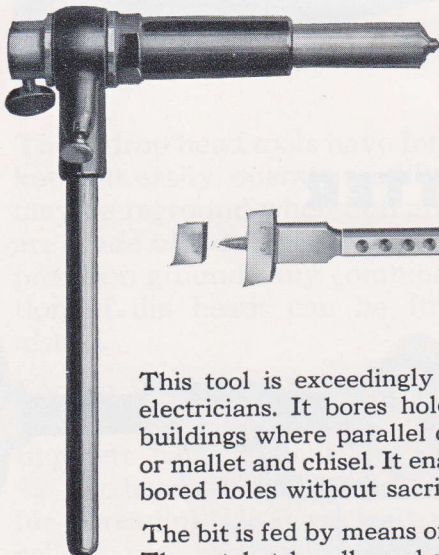
The convenient "TOLEDO" hand grip, shown in the upper left corner, provides an easy, natural position for holding the reamer. Polished tubular handles are strong and light in weight. Parts that become worn may be easily replaced without purchasing complete new reamers.



No. 383

No. 182

	Price	Ship Wt.	Net Wt.
No. 182 Ratchet Pipe Reamer, $\frac{1}{8}$ " to 2"	See Separate	5 lbs.	4½ lbs.
No. 383 Ratchet Pipe Reamer, $\frac{3}{8}$ " to 3"	Price List	8 lbs.	7¼ lbs.

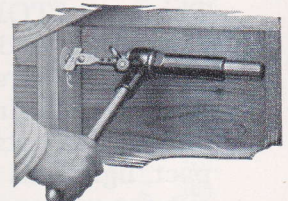


RATCHET BORING TOOL

WITH 1" to 3" EXPANSIVE BIT

This tool is exceedingly efficient and desirable for plumbers, steamfitters and electricians. It bores holes through joists, beams and other wood members of buildings where parallel or adjoining timbers interfere with use of brace and bit or mallet and chisel. It enables the operator to run pipe or conduit through cleanly bored holes without sacrificing the strength of timbers.

The bit is fed by means of a strong, steel spring in the telescopic barrel of the tool. The ratchet handle makes it easy to operate in the most confined quarters. Bits have a long shank providing a range of adjustment of approximately 6" and may be adjusted to bore holes from 1" to 3" in diameter.



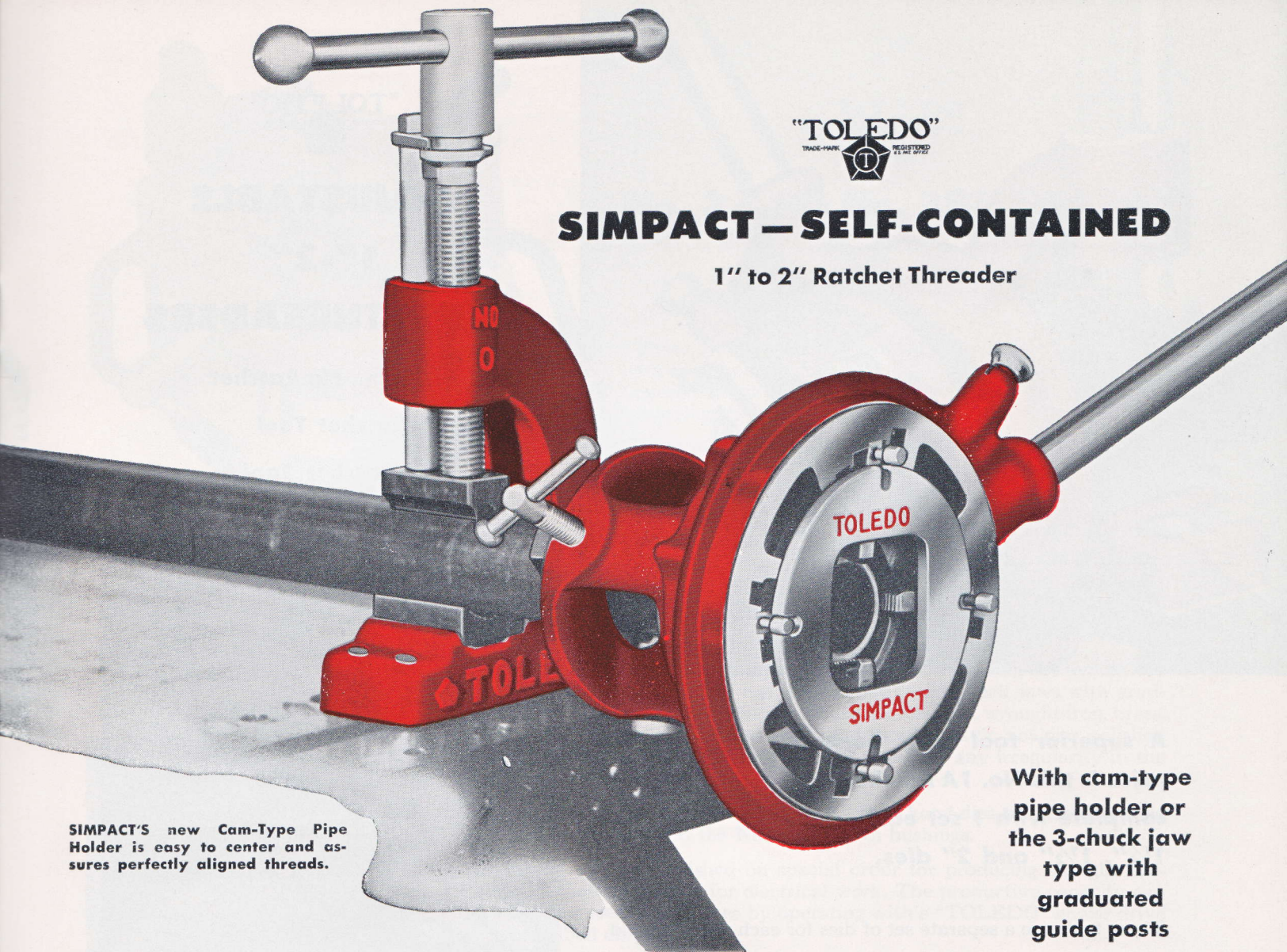
Holes bored straight through timbers, just by pumping the handle.

Tool, Extra Bits	Price	Ship Wt.	Net Wt.
Boring Tool, only without bit	See Separate	6 lbs.	5 lbs.
Expansive Bit, 1" to 3" inclusive	Price List	1 lb.	1 lb.



SIMPACT — SELF-CONTAINED

1" to 2" Ratchet Threader



SIMPACT'S new Cam-Type Pipe Holder is easy to center and assures perfectly aligned threads.

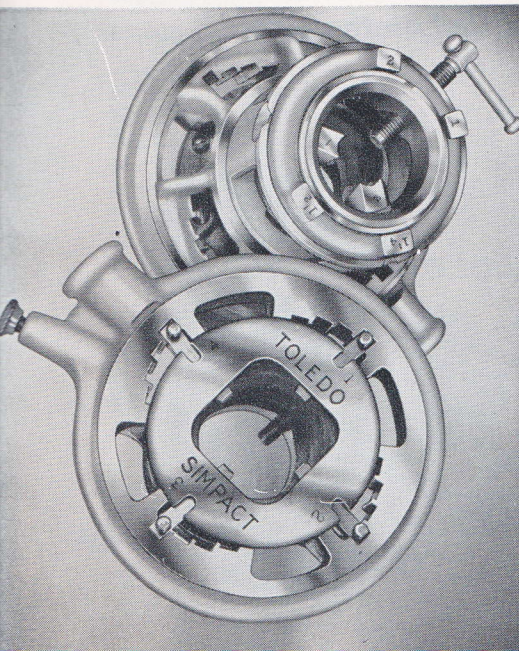
With cam-type pipe holder or the 3-chuck jaw type with graduated guide posts

Below is shown the cam-type pipe holder with the broader jaws and the one screw to tighten on the pipe.

This popular tool is now furnished with a cam-type, quick action pipe holder and broader jaws which assure more positive grip on the pipe. Free-action cam assures instant setting to size. Tool can also be furnished with pipe holder having three broad-faced chuck jaws, graduated guide posts and large wing head thumb screws if desired. Dies bear directly against the tapered steps. One set of high speed steel dies for four sizes, 1" to 2" pipe. Dies are changed in a matter of seconds. Just push the size selector button, turn the head slightly, slip the dies in the proper steps and the change is made.

Easy to operate. Produces accurate, leak-proof threads. Has few moving parts. Light in weight. Strong and sturdy. Amazingly compact, this SIMPACT tool will thread pipe projecting through a wall as short as 6 1/4".

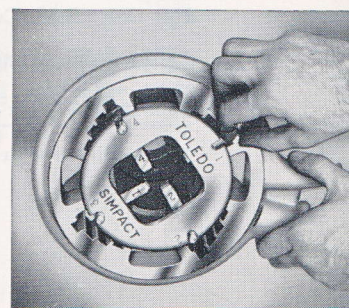
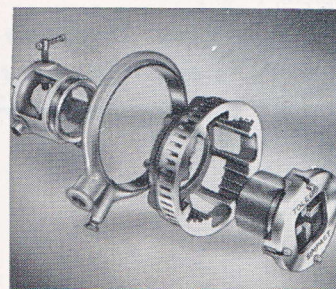
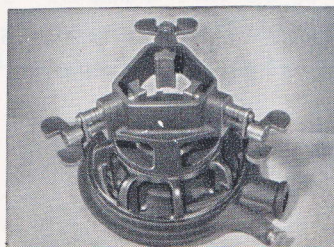
	Price	Ship. Wt.	Net Wt.
Simpact, Complete 1" to 2".....	See Separate	24 Lbs.	20 1/4 Lbs.
Dies, per set.....	Price List	1 Lb.	3/4 Lb.

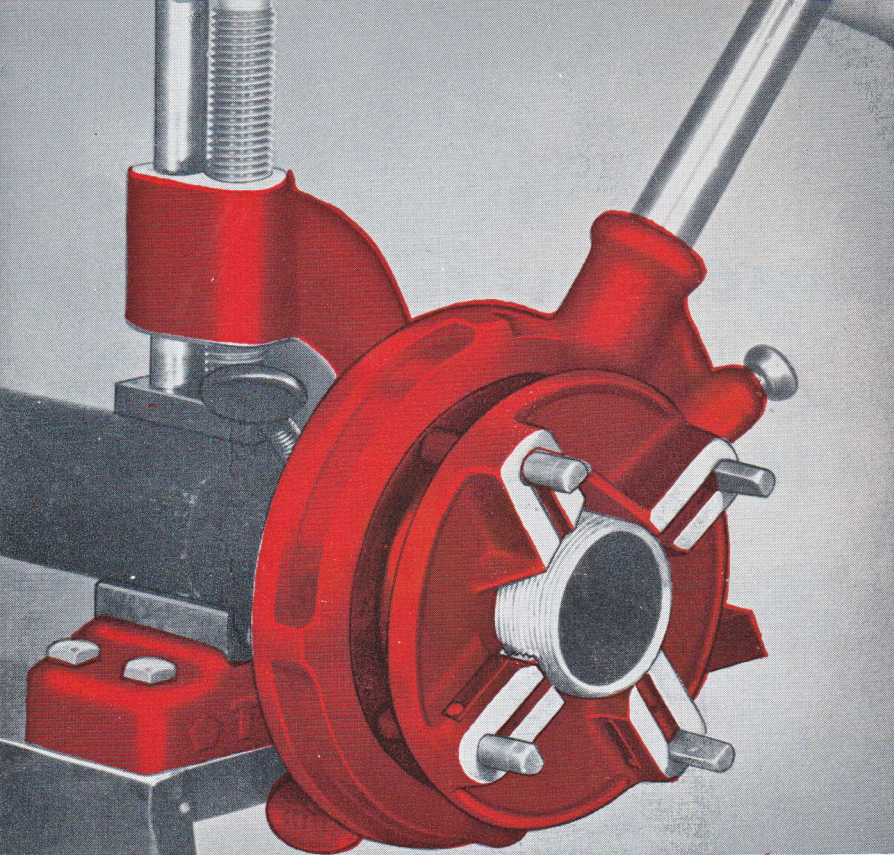


If preferred the 3-Jaw Pipe Holder with graduated guide posts and 3 large thumb screws can be furnished.

Simple — Compact. Note the simplicity of construction.

Dies changed quickly from one size to another in a few seconds. Positive die setting.





ADJUSTABLE 1"-2" PIPE THREADERS

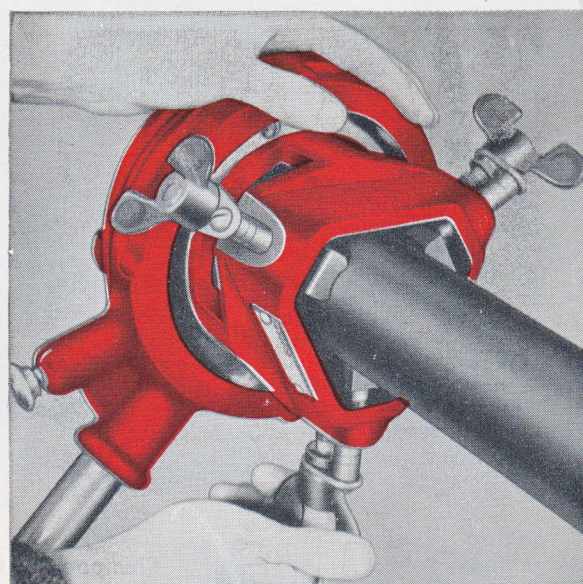
No. 1—Plain. No Ratchet

No. 1A—Ratchet Tool

No. 1BR—Ratchet Tool

A superior tool at a bargain price is this No. 1A Ratchet Tool complete with 1 set each — 1", 1¼", 1½" and 2" dies.

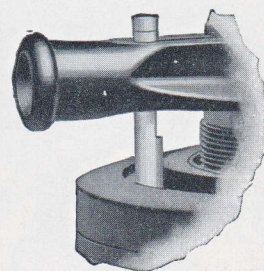
These tools use a separate set of dies for each size pipe and are preferred by thousands of operators. Easier cutting, smoother, cleaner, more perfect threads and tighter joints are possible with tools using a separate set for each size. The change is quick and easy. The 2" dies are of high speed steel. Tools complete with necessary handles and complete set of 1" to 2" right hand dies. The No. 1A tool can be furnished for cutting left hand threads.



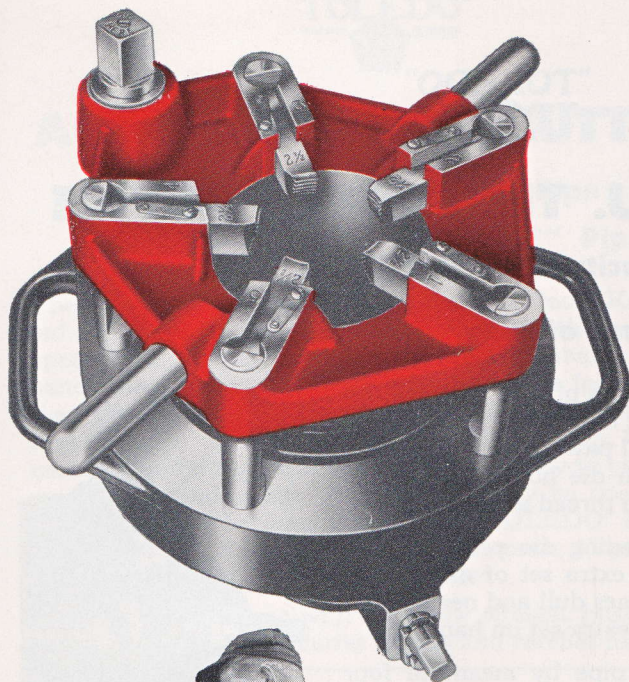
No. 1BR uses 3 large wing head thumb screws with graduated guide posts and broad-faced jaws making it easy to center this tool on the pipe.

	Price	Ship. Wt.	Net Wt.
No. 1, R.H. Complete, 1" to 2"	See Separate Price List	20 lbs.	18 lbs.
No. 1A, R.H. Complete, 1" to 2"		20 lbs.	18 lbs.
No. 1A, Left Hand, Complete, 1" to 2"		23 lbs.	21 lbs.
No. 1BR, R.H., Complete, 1" to 2"		23 lbs.	21 lbs.
*Dies, R.H., per set, per size, 1", 1¼" or 1½"		1 lb.	7 oz.
*Dies, R.H., per set, 2"		1 lb.	5 oz.

* Same dies used in each of the above tools.



TOLEDO taper pin principle of construction "tops them all" for simple, durable, satisfactory performance!



No. 2 AND No. 2BR GEARED

**ADJUSTABLE 2½" to 4"
RATCHET PIPE THREADERS**

These tools get the enthusiastic O.K. of mechanics. They are so simple in design, practical, durable and so easily operated that they have set the pace for years as the outstanding threaders for 2½" to 4" pipe.

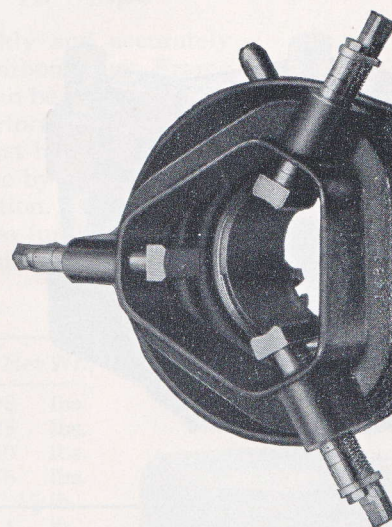
They are adjustable for cutting over, undersize threads or standard threads. The famous "TOLEDO" die receding principle, each die segment backed by a tapered pin, assures smooth, long-tapered threads and tight joints and with a minimum amount of effort. They thread with surprising ease.

These tools with the two hand grips make it easy to put the tool on the pipe and the two short stub handles are convenient for backing the dies off the completed thread.

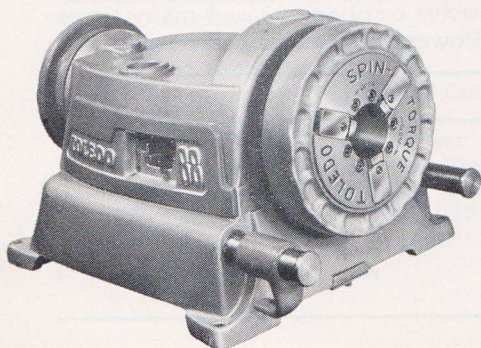
The No. 2 tool uses bushings for centering the tool on the pipe. The No. 2BR tool has three broad-faced chuck jaws with graduated guide posts for centering. Excellent for steel, wrought iron, brass, copper or cast iron pipe, as the broad-faced jaws do not mar polished pipe and will open to permit passing tool over any irregularity in the surface of the pipe.

Each tool is complete with 2½" to 4" right hand dies, set screw wrench, ratchet handle, and the No. 2 tool, with bushings.

Either can be furnished on special order for producing straight running conduit threads for electrical work. The productive capacity can be increased many times by operating with a "TOLEDO" power drive described on page 14.

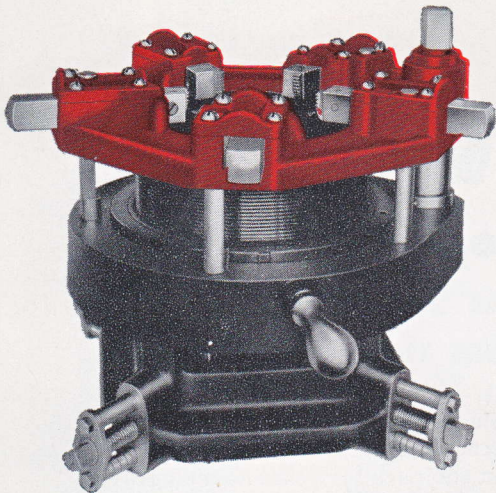


	Price	Ship. Wt.	Net Wt.
No. 2, R.H., Complete, 2½" to 4"	See Separate Price List	93 lbs.	83 lbs.
No. 2, R.H., Complete for 2½", 3" and 4" only		89 lbs.	80 lbs.
No. 2BR, R.H., Complete, 2½" to 4"		89 lbs.	81 lbs.
No. 2BR, R.H., Complete for 2½", 3" and 4" only		86 lbs.	79 lbs.
Dies, R.H., per set, per size, 2½", 3", 3½" or 4"		3 lbs.	2 lbs.
No. 2, for Conduit, Complete, 2½" to 4"		112 lbs.	88 lbs.
No. 2BR, for Conduit, 2½" to 4"		112 lbs.	84 lbs.
Electric Conduit Dies, R.H., per size, 2½", 3", 3½" or 4"		3 lbs.	2 lbs.



TOLEDO No. 88 is a compact, very powerful, efficient power unit for all jobs. See Page 16 for full description.

Three broad-faced chuck jaws and graduated guide posts on the No. 2BR make centering pipe easy.



GEARED ADJ. THREADING DEVICE

Capacity 2½" to 6" Pipe

Threads 7 Sizes of Pipe with 1 Set of Dies

This fine tool threads seven sizes of pipe with one set of dies. Change from one size to another is quick and positive. Just pull back a small pawl in each die holder and then push in or out each die holder until same registers for the size desired to thread as shown below.

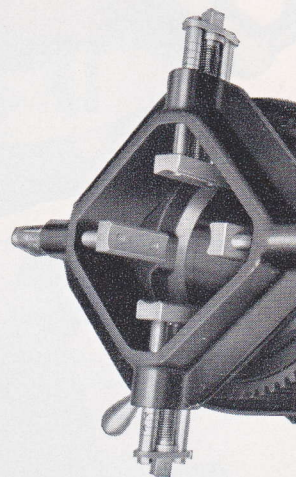
Utilizes the "TOLEDO" receding die principle and threads pipe very easily. An extra set of dies is furnished so that if one set becomes dull and needs to be resharpened, there will be an extra set on hand.

It is easily centered on the pipe by means of four broad-faced chuck jaws using graduated guide posts and set screws to tighten the jaws accurately. It is entirely self-contained with the exception of the ratchet handle and set screw wrench. Tool body from tip to tip of lifting handles is 24".

Excellent for threading cast iron pipe. The four-jaw pipe holder permits easy and accurate centering even though the outer surface of the pipe may be slightly uneven. High speed steel dies are recommended for cast iron pipe and can be furnished at a moderate price.

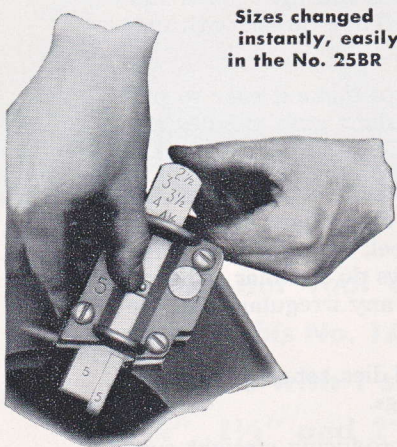
The tool is complete with two sets of dies, set screw wrench and ratchet handle.

The productive capacity of this tool can be increased many times by operating with the "TOLEDO" Power Drive described on page 14.

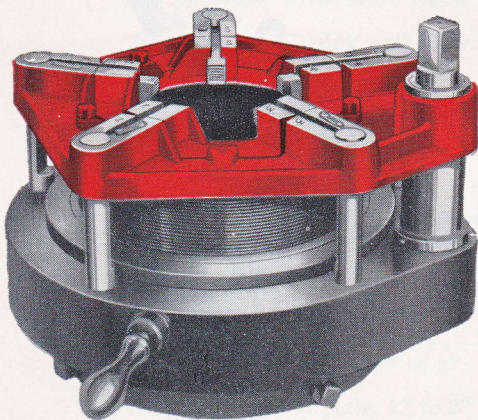


4 chuck jaws to center pipe

Sizes changed
instantly, easily
in the No. 25BR



	Price	Ship. Wt.	Net Wt.
No. 25BR, R.H., Complete, 2½" to 6".....	See Separate	175 lbs.	150 lbs.
Dies, R.H., per set	Price List	1 lb.	8 oz.



GEARED ADJUSTABLE THREADING DEVICES

No. 2½-5", 6" Pipe No. 3-5", 6", 8" Pipe
No. 4-10" and 12" Pipe

Three "TOLEDOS" for threading large pipe and specified by experienced operators. A separate set of dies for each size pipe will cut perfect threads on either wrought iron or steel pipe.

Each tool can be operated by one man after it is put on the pipe and will cut threads in restricted quarters. Even the No. 4 tool will thread pipe in position and after it is put on the pipe, one man can cut the thread.

Each tool is complete with right hand pipe dies, set screw wrench, bushings and ratchet handle. The productive capacity can be increased many times by operating them with a "TOLEDO" Power Drive described on page 14.

	Price	Ship. Wt.	Net Wt.
No. 2½, R.H., Complete, 5" to 6"	See Separate Price List	164 lbs.	155 lbs.
No. 3, R.H., Complete, 5", 6" and 8"		214 lbs.	197 lbs.
No. 4, R.H., Complete, 10" and 12"		373 lbs.	329 lbs.
Dies, R.H., per set, per size, 5" or 6", No. 2½			
Dies, R.H., per set, per size, 5", 6" or 8", No. 3			
Dies, R.H., per set, per size, 10" or 12", No. 4			



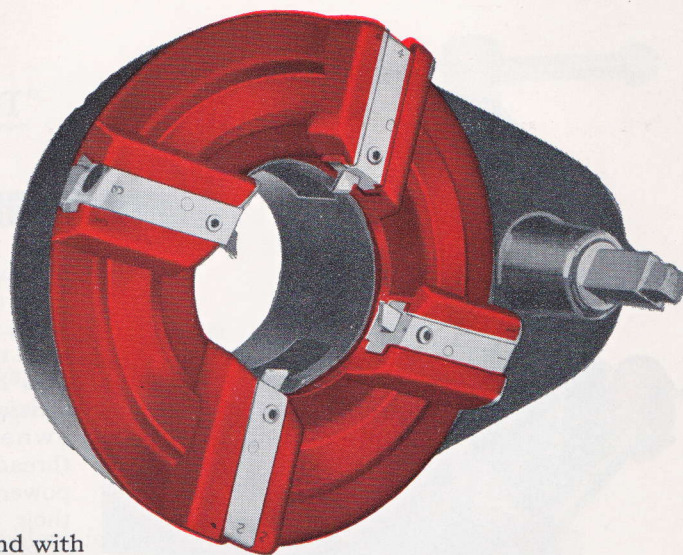
AUTOMATIC PIPE CUTTERS

No. 40—Cuts 2" to 4" Pipe

No. 80—Cuts 5", 6" and 8" Pipe

These Automatic Pipe Cutters are unusual tools. Knives are fed automatically requiring no attention on the part of the operator except to see that they are kept sharp. A single hand wheel given a part turn sets the knives for cutting or the quick return after the pipe is cut off. The tools cut rapidly, leave a straight, square end cut without burr and neatly chamfer the outer edge making it easy to center and start the threading dies on the pipe. May be operated by hand with a ratchet handle or with a "TOLEDO" Power Drive, and with the No. 40 will cut off 2" pipe in 20 seconds, 4" pipe in 65 seconds. The No. 80 will cut off 8" pipe in 2 minutes.

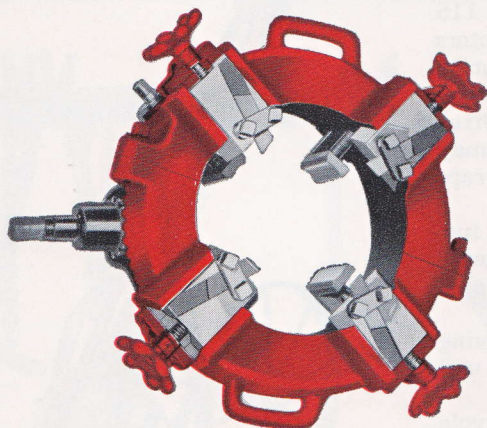
Each tool is complete with set screw wrench, bushings, necessary cutter blocks, an extra set of cutter knives and ratchet handle.



TOLEDO Pipe Cutters, either automatic or geared type, can be converted into fast power cutters with a "TOLEDO" Power Drive.

	Price	Ship Wt.	Net Wt.
No. 40, Complete, 2" to 4"		90 lbs.	85 lbs.
1 set of (4) Cutter Blades	See Separate Price List	1 lb.	4 oz.
1 set of (4) Special 45° Bevelled Cutter Blades		1 lb.	6 oz.
1 set of (4) Special Victaulic Grooving Blades, 5/16" or 3/8"*		1 lb.	6 oz.
No. 80, Complete, 5", 6" and 8"		189 lbs.	165 lbs.
1 set of (4) Cutter Blades		1 lb.	7 oz.
1 set of (4) Special 45° Bevelled Cutter Blades		1 lb.	7 oz.
1 set of (4) Special Victaulic Grooving Blades, 3/8" or 7/16"*		1 lb.	7 oz.

* Specify size.



GEARED PIPE CUTTERS

No. 250—Cuts 2½" to 6" Pipe
No. 300—Cuts 4½" to 8" Pipe
No. 350—Cuts 7" to 10" Pipe
No. 400—Cuts 9" to 12" Pipe

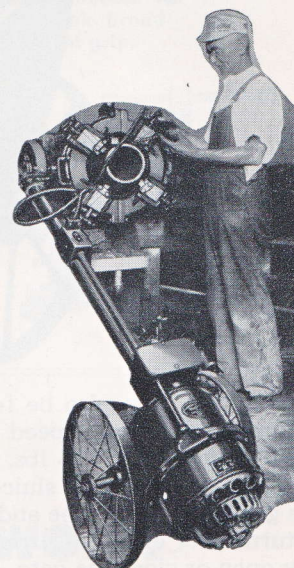
These tools cut off large pipe quickly and accurately leaving a straight, square end cut without burr. Frame casting is made in two parts so tools can be clamped around pipe already installed in the line and the work performed. While the cutter frame is rotating either by means of the ratchet handle or a "TOLEDO" Power Drive, the knives are fed into the pipe by hand, the operator giving the hand wheel a part turn at each revolution. Knives are of high speed steel

and may be reground when dull. Special cutter blades for beveling pipe can be furnished on special order. Special grooving blades for grooving pipe for Victaulic couplings can also be furnished.

Each tool is complete with cutter knives, set screw wrench and ratchet handle.

	Price	Ship. Wt.	Net Wt.
No. 250, Complete, 2½" to 6"		110 lbs.	98 lbs.
No. 300, Complete, 4½" to 8"		164 lbs.	125 lbs.
No. 350, Complete, 7" to 10"		173 lbs.	150 lbs.
No. 400, Complete, 9" to 12"		207 lbs.	175 lbs.
1 set of (4) Cutter Blades	See Separate Price List	1 lb.	1½ lb.
1 set of (4) Special 45° Bevelled Cutter Blades		1¼ lbs.	1 lb.
1 set of (2) Adapters		1 lb.	¾ lb.
4 Long Cutter Clamp Screws, per set		1 lb.	½ lb.
*1 Set Special Victaulic Grooving Blades		1¼ lbs.	1 lb.

* 5/16", 3/8", 7/16" or 1/2" wide. Specify width desired.

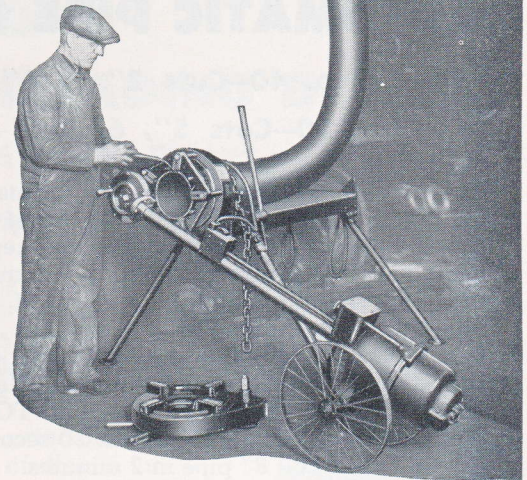


These cutters bevel pipe perfectly.



POWER DRIVES

"TOLEDO" Power Drive has been on the market for many years and its ability to save both time and labor on piping jobs has been proven to the satisfaction of thousands of owners. It operates hand threading and cutting tools by power, thus greatly increasing their efficiency. It will save approximately four-fifths of the elapsed time as compared with hand operated tools.



STANDARD POWER DRIVE

The Standard Drive is equipped with A.C. 1½ H.P. motor, 20 feet of flexible cable. Length over all is approximately 6 feet. Enclosed in the motor housing is a two-speed transmission gearing controlled by gear shifting rod and knob. At slow speed the driving head rotates at 38 r.p.m., on high speed at 57 r.p.m. It can be furnished with A.C., single phase motor, 115-230 volts or A.C., 3 phase motor, 220-440 volts. A special attachment to thread 1" to 2" pipe operating a "TOLEDO" No. 1 Tool for the Power Drive can be furnished.

UNIVERSAL POWER DRIVE

Universal Power Drive with ½ H.P. universal reversible motor operates from light socket on any 115

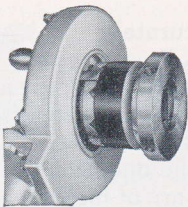
volt current. Can also be furnished with a 230 volt universal reversible motor. Motors automatically adjust speed to load. When under load driving bushing operates about 30 r.p.m. Weighs only 165 lbs. 20 feet of rubber covered cable is furnished with each drive. Large gate valves and sluice gates are opened or closed with the Universal Power Drive at a great saving in time and work. The driving head is slipped on the valve stem and may be turned for either horizontal or vertical stem valves. Motor is reversible and will rapidly open or close the gate.

There are 2 types of safety devices that can be furnished on special order for the Universal Power Drive when it is used for opening or closing sluice gates or gate valves.

A mechanical 8-position adjustable safety driving device as illustrated with a 1½" square hole will slip under overload.

An electrical safety device, for 115 volt 60 cycle only, mounted on the drive will shut the motor off when the current exceeds one-quarter, one-half, or full load.

The power drive is normally furnished with driving bushings for a 15/16" and 1-1/16" square shanks. Other size bushings can be furnished on special order.



Mechanical Adjustable Safety Device



One of two TOLEDO Power Drives used in Holyoke, Mass., for flood control. Saves 27½ manhours in closing 36 sluice gates.



Standard Power Drives, Special Attachment	Price	Ship. Wt.	Net Wt.
With A.C. Motor, 60 Cycle (Specify Voltage).....	See Separate Price List	342 lbs.	240 lbs.
With A.C. Motor, 50 Cycle (Specify Voltage).....		342 lbs.	240 lbs.
Special Attachment for No. 1 Tool.....		6 lbs.	5 lbs.
Universal Power Drive, 115 Volt.....		256 lbs.	165 lbs.
Universal Power Drive, 230 Volt.....		256 lbs.	165 lbs.
Mechanical Adjustable Safety Device.....		25 lbs.	19½ lbs.
Electrical Safety Device Mounted on Power Drive.....		.....	.....



MALLEABLE OPEN-SIDE PIPE VISES

Practical and convenient quality built pipe vise that eliminate the need of unlatching and tipping back a yoke for long lengths of pipe. The operator simply slips the pipe in the open side and tightens down the jaws. Handles are extra long, permitting easier setting of the vise jaws. Jaws in the No. 00 vise are 2¼" long, No. 0 vise 2½" and No. 3 vise 3¼" long. Both upper and lower jaws are heat treated steel, full overlapping and will hold all pipe perfectly. Excellent for brass or copper pipe, and for fitting make-up work. Jaw construction permits working close to the face of the vise. Jaws easily replaced when dull. Frame is made of malleable iron and extra heavy. These are handy, low priced quality pipe vise that will be appreciated by every user.

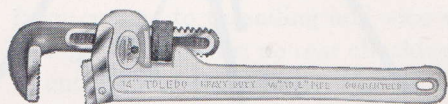
Capacity—

No. 00—1/8" to 1½" Pipe

No. 0—1/8" to 2½" Pipe

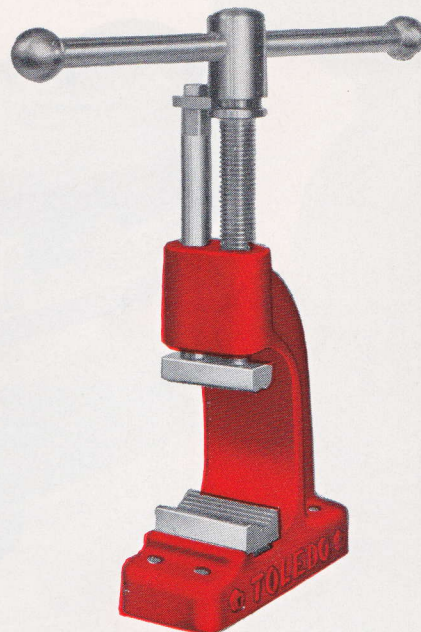
No. 3—1/8" to 4½" Pipe

Pipe Vise	Price	Ship. Wt.	Net Wt.
No. 00 Open-Side Vise, Cap. 1/8" to 1½" Pipe.....	See Separate	7 lbs.	6 lbs.
No. 0 Open-Side Vise, Cap. 1/8" to 2½" Pipe.....	Price	13 lbs.	11¼ lbs.
No. 3 Open-Side Vise, Cap. 1/8" to 4½" Pipe.....	List	27 lbs.	26½ lbs.

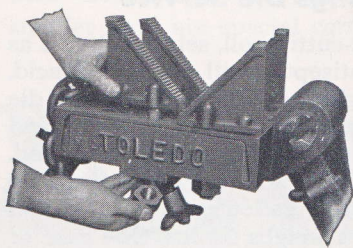
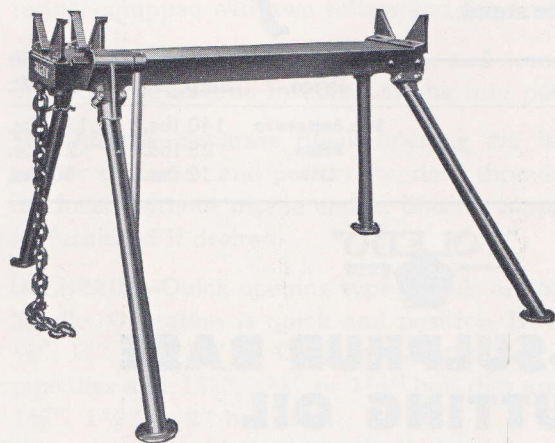
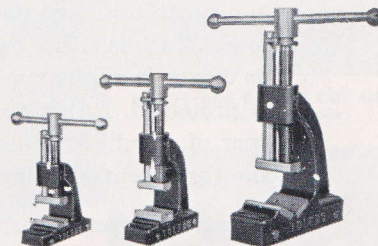


**Did you see the
TOLEDO Heavy Duty
Pipe Wrenches
On Page 3?**

**Relative size of
No. 00, No. 0 and
No. 3 Vises.**



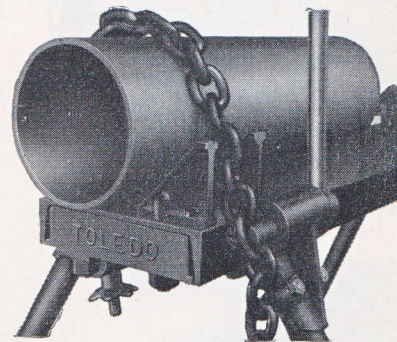
**No latch to unhook. No
hook to break. Broad
jaws. Firm grip.**



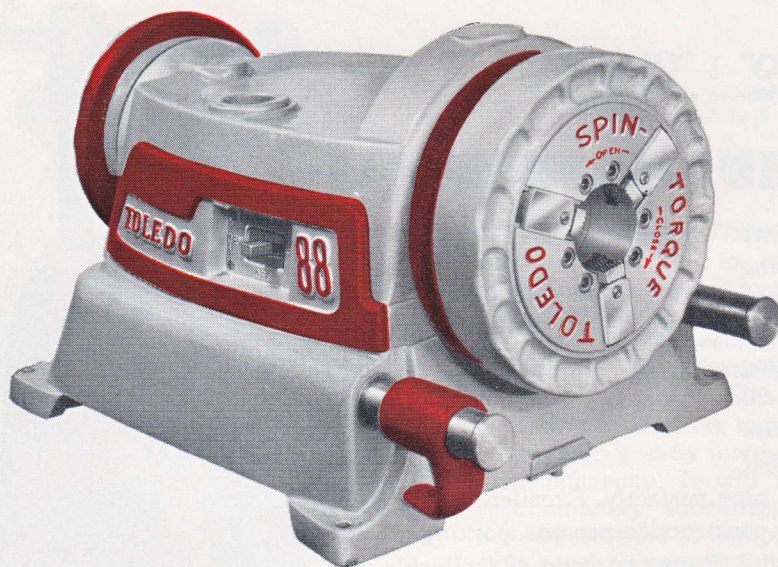
**Jaws are easily
removed. Can be
re-cut if desired.**

No. 9 HEAVY DUTY WORK BENCH WITH CHAIN VISE 2" TO 12" PIPE

An excellent bench for handling large pipe and heavy work. Chain vise is of special design, built in the bench and made a part thereof. Chain is adjustable so that a single upward thrust of the lever grips the pipe securely. Holds 2 to 12-inch pipe. Table top is 4 feet long by 12 inches wide. Sturdily built to give years of hard exacting service.



	Price	Ship. Wt.	Net Wt.
"TOLEDO" No. 9 Work Bench and Chain Vise.....	See Separate Price List	214 lbs.	210 lbs.



No. 88 POWER DRIVE

WITH NEW
SPIN-TORQUE CHUCK

A Fast, Powerful Portable Power Unit That Converts Hand Tools To Swift Efficient Power Tools.

This is the new No. 88 High Speed Power Drive or Power Vise Stand that promises to become the most popular power unit of this type on the market.

It is fast, powerful and rugged. Motor is concealed in the aluminum housing and protected from damage by a metal plate. Spindle runs in bronze bearings. Chuck is either new Spin-Torque with rocking wedge jaws that tighten as torque is applied or the regular 3-jaw Universal type of chuck whichever is preferred. Either type chuck holds pipe firmly and accurately. Pipe in rear of spindle is centered instantly by spinning the cam wheel controlling the three centering jaws.

The No. 88 can be furnished with four legs that are held firmly in the frame by thumb screws and an expanded metal tray as illustrated can also be furnished, if desired.

The "TOLEDO" No. 88 is an outstanding power drive or power vise stand.

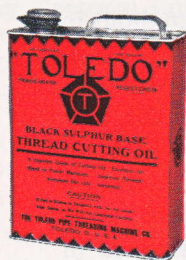
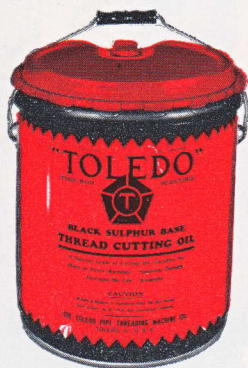


	Price	Ship. Wt.	Net Wt.
No. 88 Less Legs and Tray	See Separate	140 lbs.	132 lbs.
4 Legs	Price	25 lbs.	23 lbs.
Tray	List	12 lbs.	10 lbs.



DARK-SULPHUR BASE CUTTING OIL

A Superior Oil That Prolongs Die Service



This is a very high grade superior thread-cutting oil, selected by us as the result of years of experience. It is antiseptic, will not turn rancid, and assures smoother, cleaner threads, tighter joints and increased die service. It is economy to use good thread-cutting oil and we recommend "TOLEDO" black sulphur base cutting oil as being especially good, either for hand tools or power machines. It is sold only in sealed, red lithographed 1/2 gallon cans, 1 gallon cans, 5 gallon pails or 54 gallon drums. One case of twelve 1/2 gallon cans weighs 54 lbs. One case of six 1 gallon cans weighs 54 lbs., 5 gallon pail weighs 44 lbs., 54 gallon drum weighs 478 lbs.

ALSO SUPPLIED IN 1 GALLON CANS — CLEAR SULPHUR BASE THREAD CUTTING OIL — FOR THOSE WHO PREFER IT



No. 999 POWER PIPE MACHINE

WITH NEW SPIN-TORQUE CHUCK
OR 3-JAW UNIVERSAL CHUCK

Capacity— $\frac{1}{8}$ " to 2" Pipe

$\frac{1}{4}$ " to 2" Bolts

$\frac{1}{2}$ " to 2" Conduit

Threads 2" Pipe in 22 Seconds.

Cuts off 2" Pipe in 10 Seconds.

A supremely fine portable power pipe machine that has demonstrated its superior efficiency with thousands of users throughout the world. Cuts, threads, and reams pipe up to and including 2", and bolts from $\frac{1}{4}$ " to 2". A practical, popular and highly efficient pipe machine for either shop or job or industrial plants.

Production is unusually high—instant change from cutting to threading and vice versa; quick change of die heads; no rear chucking; and speed in cutting and threading.

CUTTING—Choice of knife or wheel cut-off. Four cutter knives, scroll fed, cut pipe quickly and without burr. Wheel type cutter, self-centering, equipped with two rollers and one cutter wheel. Cuts off pipe rapidly.

REAMING—Pipe is reamed quickly and smoothly by a 6-tooth cone type fluted reamer, mounted on an arm, instantly swung into position and fed by carriage feed wheel.

THREADING—Separate quick opening die heads and dies for each size pipe assuring proper clearance and perfect standard threads. 2" nipples as short as $3\frac{1}{2}$ " long can be produced without nipple chuck. Shorter nipples on the smaller sizes. Nipple chuck can be furnished if desired.

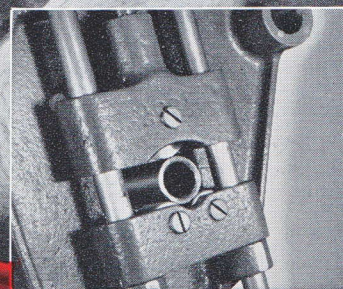
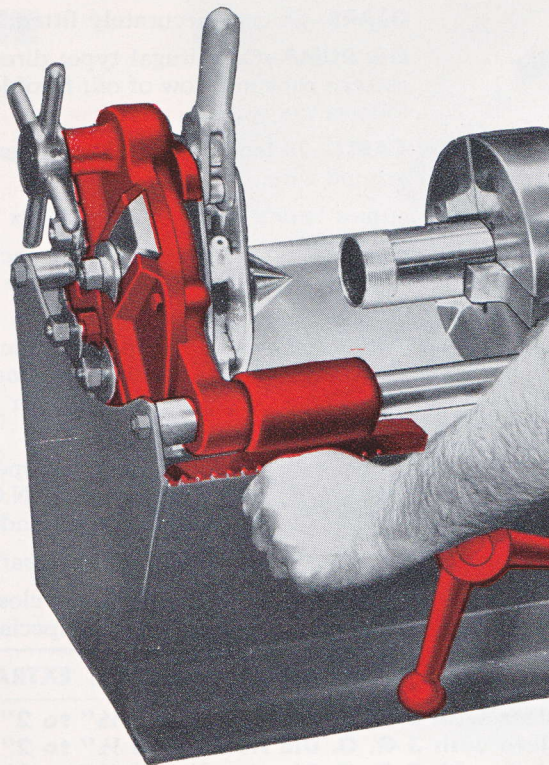
DIE HEADS—Quick opening type. Heads are opened or closed by raising or lowering the handle. Operation is quick and positive. Dies are fully adjustable. One die head takes $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " or $\frac{3}{4}$ " pipe dies and $\frac{1}{4}$ " to $1\frac{1}{8}$ " bolt dies. Another takes 1" or $1\frac{1}{4}$ " pipe dies and $1\frac{1}{4}$ ", $1\frac{3}{8}$ " or $1\frac{1}{2}$ " bolt dies and the third size $1\frac{1}{2}$ " or 2" pipe dies and $1\frac{5}{8}$ ", $1\frac{3}{4}$ " or 2" bolt dies.

DIES—Separate set for each size. Easily reground when dull. Adjustable. $\frac{3}{4}$ " dies and smaller sizes are special carbon alloy steel. 1" to 2" are high speed steel and the rake type. Excellent for copper, brass or cast iron as well as iron or steel pipe. Left hand dies can be furnished.

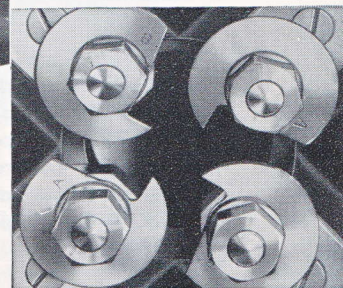
CHUCK—Your choice of either the new "TOLEDO" Spin-Torque (see illustration at left) or the regular 3-jaw Universal type.

SPINDLE—Strong, heavy, with extra-large, accurately ground bearings.

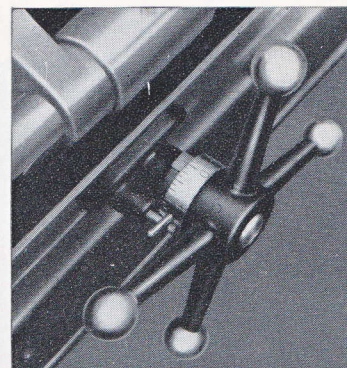
Separate Die Head for each size. Reamer mounted on an arm which is instantly swung into position as shown here.



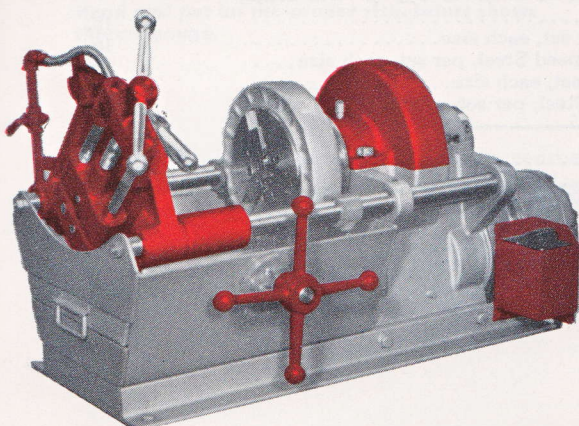
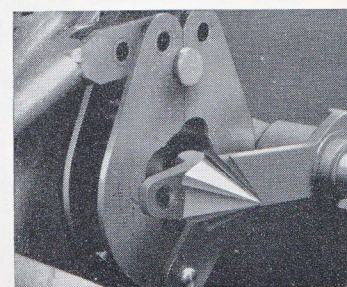
WHEEL and ROLLER CUT OFF available on the Super.

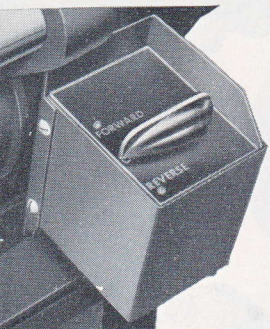


KNIFE CUT OFF . . . Knives all cut simultaneously.



Carriage Feed Wheel showing also Thread Length Gauge.





All Controls are centralized in this Motor Switch.

CONTROLS—No gear shifting levers. All controls centralized in the forward-reversing switch located at the operator's right hand. Switch enclosed in heavy metal case.

MOTOR— $\frac{1}{2}$ H.P. heavy duty; 115 volt universal type; D.C. or A.C., any cycle; reversible; ball bearing; speed automatically adjusts to load; ample power beyond all needs; also available with 230 volt universal or 3 phase, 60 cycle, 220 or 440 volt reversible motor.

GEARS—Strong; accurately fitted; run in oil bath.

OIL PUMP—Centrifugal type; direct drive from motor; no release or overflow valves; assures constant flow of oil; flexible oil line with spout attached to cutter head so spout follows the work.

CABLE—20 feet; 3-conductor; 14 gauge; heavy duty; oil resistant with 2-prong plug and ground wire.

DIMENSIONS—Machine occupies bench space of only 36" x 14" and is 20" high.

STEEL STAND—Furnished on special order, either open or enclosed type. Enclosed stand has door and hasp and is fitted with partitioned die box for holding die heads. May be furnished without wheels or with 16" rubber tired wheels.

REGULAR EQUIPMENT—Includes complete machine, six quick opening die heads and $\frac{1}{2}$ " to 2" right hand pipe dies (6 sets), bushings, chuck wrench, 20 ft. of cable and one gallon of "TOLEDO" Black Sulphur-Base Thread Cutting Oil. No cable furnished with 3 phase machine. An extra cutter wheel is furnished with machine with wheel type cut-off.

ADDITIONAL EQUIPMENT—The following furnished on special order: Adjustable pipe support; special quick opening left hand die heads and $\frac{1}{2}$ " to 2" left hand dies; N.C. and N.F. $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", 1", $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", $1\frac{3}{8}$ ", $1\frac{1}{2}$ ", $1\frac{5}{8}$ ", $1\frac{3}{4}$ " and 2" right hand bolt dies; $\frac{1}{2}$ " to 2" electric conduit dies.

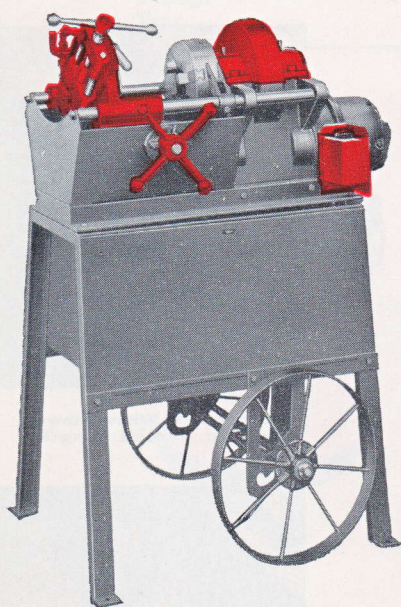
UNIVERSAL DRIVE SHAFT to operate large "TOLEDO" geared threaders and cutters can also be furnished.

NIPPLE CHUCK can also be furnished for cutting short or close nipples. A special reamer and chamfering blade for reaming and chamfering pipe can also be furnished on special order.

SUPER MODEL MACHINE, EXTRA PARTS

	Price	Ship. Wt.
No. 999 complete with 6 Q. O. Die Heads and $\frac{1}{2}$ " to 2" R.H. Pipe Dies (6 sets)	465	lbs.
No. 999 complete with 3 Q. O. Die Heads and $\frac{1}{2}$ " to 2" R.H. Pipe Dies (6 sets)	445	lbs.
No. 999 complete with 3 Q. O. Die Heads and $\frac{1}{8}$ " to 2" R.H. Pipe Dies (9 sets)	447	lbs.
No. 999 complete with 9 Q. O. Die Heads and $\frac{1}{8}$ " to 2" R.H. Pipe Dies (9 sets)	470	lbs.
No. 999 complete with 8 Q. O. Die Heads and $\frac{1}{4}$ " to 2" R.H. Pipe Dies (8 sets)	468	lbs.
No. 999 complete with 7 Q. O. Die Heads and $\frac{3}{8}$ " to 2" R.H. Pipe Dies (7 sets)	467	lbs.
Plain steel stand, open type, no wheels	71	lbs.
Plain steel stand, open type, with 16" steel tired wheels	113	lbs.
Enclosed steel stand, with partitioned Die Head Box, no wheels	98	lbs.
Enclosed steel stand, with partitioned Die Head Box, and 16" steel tired wheels	140	lbs.
Enclosed steel stand, with partitioned Die Head Box, and 16" rubber tired wheels	140	lbs.
Adjustable pipe support	30	lbs.
$\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " Quick-Opening Die Head, only, no Dies	6 $\frac{1}{4}$	lbs.
1"-1 $\frac{1}{4}$ " Quick-Opening Die Head, only, no Dies	6 $\frac{1}{4}$	lbs.
1 $\frac{1}{2}$ "-2" Quick-Opening Die Head, only, no Dies	6 $\frac{1}{4}$	lbs.
1 set $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " or $\frac{3}{4}$ " R.H. Pipe Dies, carbon steel, per set, each size	1	lb.
1 set 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ " or 2" R.H. High Speed Steel Pipe Dies, per set, each size	1	lb.
Bushings, $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", each	1 $\frac{1}{2}$	lbs.
*Cutter Blade (specify whether "A" or "B"), each	2	oz.
Cutter Blades, per set of four	1	lb.
Cutter Wheels		
Cutter Pins		
Cutter Rollers		
1 set $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", 1" or $1\frac{1}{8}$ " U.S.S. or N.C., and S.A.E. or N.F.R.H. Bolt Dies, carbon steel, for $\frac{1}{2}$ "- $\frac{3}{4}$ ", Q. O. Die Head, per set, each size	1	lb.
1 set $1\frac{1}{4}$ ", $1\frac{3}{8}$ " or $1\frac{1}{2}$ ", U.S.S. or N.C., R.H. High Speed Steel Bolt Dies, for 1", $1\frac{1}{4}$ " Q. O. Die Head, per set, each size	1	lb.
1 set $1\frac{5}{8}$ ", $1\frac{3}{4}$ " or 2" N.C., R.H. High Speed Steel Bolt Dies, for $1\frac{1}{2}$ "-2" Die Head, per set, each size	1	lb.
1 set $\frac{1}{2}$ " or $\frac{3}{4}$ " Electric Conduit Dies, carbon steel, per set, each size	1	lb.
1 set 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ " or 2" Electric Conduit Dies, High Speed Steel, per set, each size	1	lb.
1 set $\frac{1}{2}$ " or $\frac{3}{4}$ " Left Hand Pipe Dies, carbon steel, per set, each size	1	lb.
1 set 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ " or 2" L.H. Pipe Dies, High Speed Steel, per set, each size	1	lb.
Universal Drive Shaft	32	lbs.
No. 2 Nipple Chuck, $\frac{1}{2}$ " to 2"	32	lbs.
No. 2 Special Reamer and Chamfering Blade with Holder	3	lbs.
No. 2 Reamer and Chamfering Blade	1	lb.

See Separate Price List



Machine is balanced on two wheels and is easily moved by one man. When in use it will set firmly on all four legs.

*When ordering single cutter blades specify whether "A" or "B" required. A complete set comprises two "A" and two "B" blades. When ordering specify serial number of the machine. Always specify whether knife or wheel and roller cut off, and voltage.



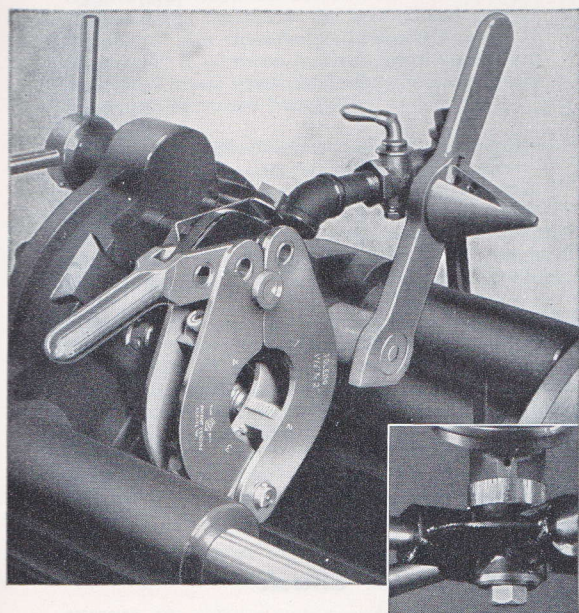
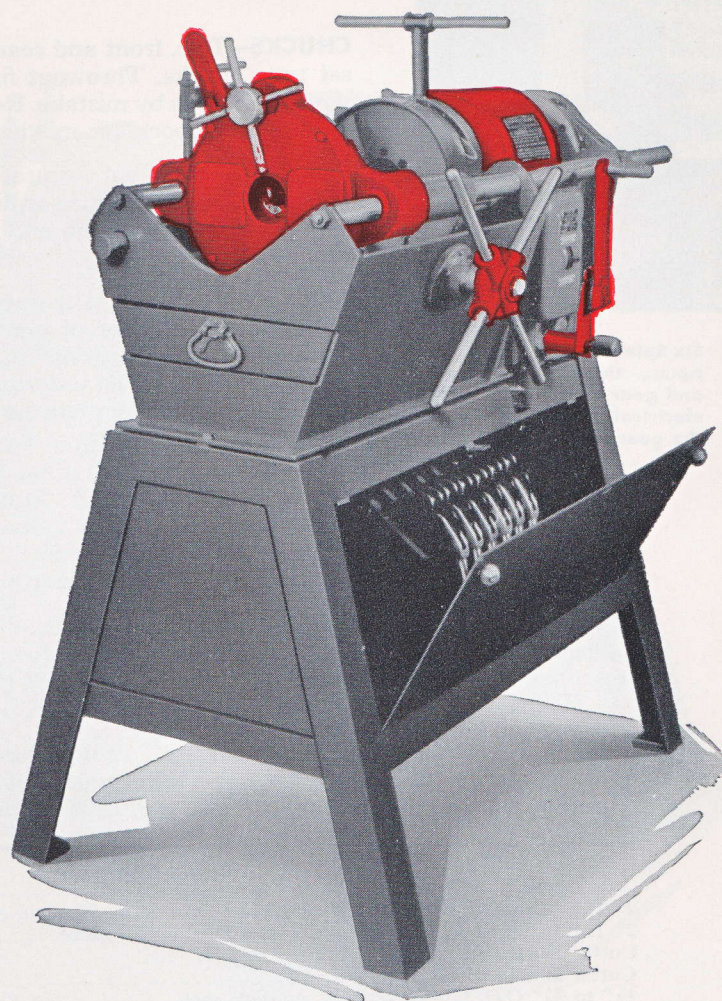
2" HIGH SPEED POWER PIPE MACHINE

Capacity— $\frac{1}{8}$ " to "2" Pipe
 $\frac{3}{8}$ " to 2" Bolts
 $\frac{1}{2}$ " to 2" Conduit

Threads 2" Pipe in 15 Seconds.

Cuts off 2" Pipe in 6 Seconds.

A very fast, high speed, high production pipe machine to cut, thread and ream pipe up to 2". Steel frame and bed is strong and unusually deep. Bed and head stock are one unit, assuring simplicity and perfect alignment.



Die change in seconds. Just lift off this Die Head and put on the proper size. Insert shows thread gauge.

REAMING—Cone type single blade reamer mounted on an arm which is swung into position and fed by carriage feed wheel.

SPEED—Six spindle speeds with one clutch lever and gear shifting lever with speeds varying from 40 to 335 r.p.m. Cutting speed approximately $3\frac{1}{2}$ times the threading speed. Multiple disc clutch with brake. Electrical reverse and not through reverse gears, thus simplifying the gear train.

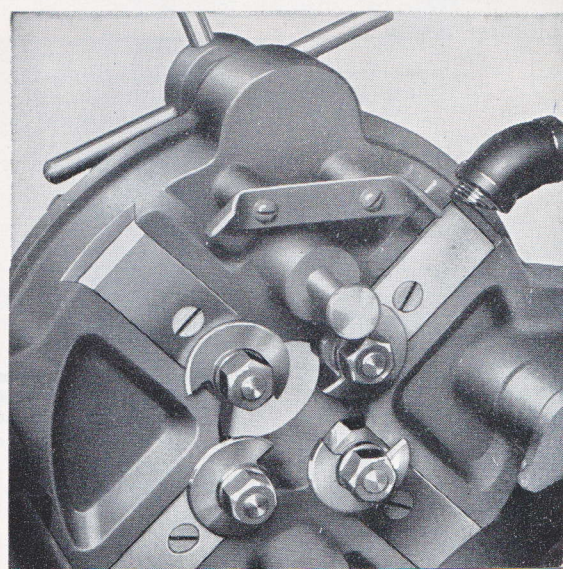
DIE HEADS & DIES—Separate quick opening die head for each size pipe. No movement of dies in die slots, thus assuring long wear. Unusual amount of chip clearance. Die heads changed instantly.

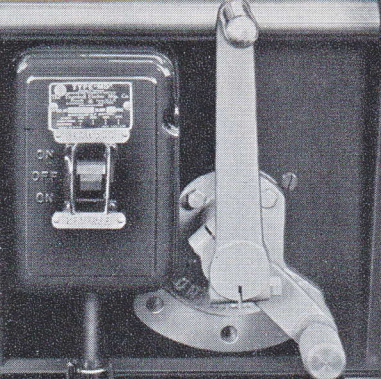
THREADING—Separate set of dies for each size pipe assures proper die clearance and smooth, accurate threads. $\frac{1}{2}$ " to 2" dies of high speed steel. $\frac{1}{2}$ " pipe threaded in 6 seconds, 1" in 10 seconds and 2" in 15 seconds. Faster speeds can be obtained.

OIL PUMP—Centrifugal type no relief valves. Passes chips and dirt without clogging assuring ample flow at all times.

CUTTING—Cutter head with four double-edged high speed steel knives cutting simultaneously. Cuts off $\frac{1}{2}$ " pipe in 3 seconds, 1" in 4 seconds, 2" in 6 seconds. Knives easily re-ground when dull.

Four Cutter Knives cut pipe quickly and leave a straight square end cut.





Six Spindle Speeds, 40 to 335 r.p.m., through one clutch and gear shifting lever. The electrical reverse simplifies the gear train.

CHUCKS—Two, front and rear, 9" three-jaw universal type chucks. Throwout fingers positively eject wrench if left in by mistake. Rear chuck is fitted with pipe tong supports for making up fittings.

GEARS—Machine cut, accurately fitted, very strong. Run in oil bath. Machine equipped with safety friction gear, friction clutch and thermal overload circuit breaker.

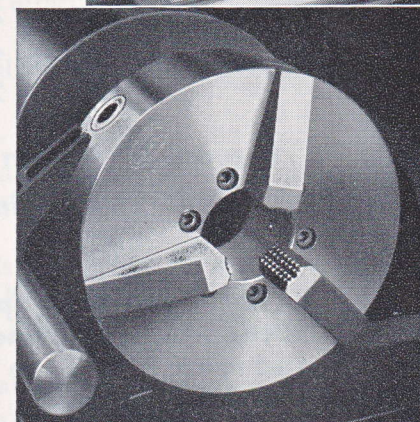
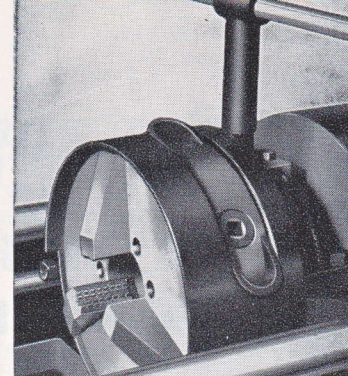
MOTOR—1½ H.P. heavy duty with surplus reserve power. Hung on rear of machine away from floor dirt and oil. Motor is protected by thermal overload circuit breaker. When ordering or requesting quotation always give complete current specifications.

Net weight 850 lbs. Floor space 36" x 27", overall dimension 31" x 45", total height 47", height to center of chuck 38½". Maximum distance from chuck to cut-off tool 8". Spindle bore 2⅝". Minimum length of nipple on 2" pipe without nipple

chuck 3". Nipple chuck can be furnished for shorter nipples.

REGULAR EQUIPMENT—Six quick opening die heads, six separate sets of high speed steel dies ½" to 2", set of high speed steel cutter knives, reamer, wrenches, adjustable pipe support, three gallons of thread-cutting oil, and 1½ HP heavy duty motor.

SPECIAL EQUIPMENT—Nipple Chuck for cutting close and short nipples can be furnished for this machine. A special reamer and chamfering blade for reaming and chamfering pipe can also be furnished on special order.



Two Chucks—9" universal type. Rear chuck has pipe tong supports for making up fittings.

Machine, Complete	Price	App. Ship. Wt.
2" H.S. complete with 220-440 volt*, 3 phase 60 or 50 cycle motor		1160 lbs.
2" H.S. complete with 230 bolt, 1 phase 60 cycle motor		1160 lbs.
Cutter Blade, each		1 lb.
Cutter Blades, per set of 4		1 lb.
⅛" to ¾" Q.O. Die Head only, no dies, each		6¼ lbs.
1"-1¼" Q.O. Die Head only, no dies, each		6¼ lbs.
1½"-2" Q.O. Die Heads only, no dies, each		6¼ lbs.
1 Set ⅛", ¼" or ⅜" R.H. Dies, Carbon Steel, per set, each size		1 lb.
1 Set ½" or ¾" R.H. High Speed Steel Dies, per set, each size		1 lb.
1 Set 1", 1¼", 1½" or 2" R.H. High Speed Steel Pipe Dies, per set, each size		1 lb.
N.C. or N.F. R.H. Bolt Dies, ⅜" to 1⅝", Carbon Steel, per set, each size		1 lb.
N.C. or N.F. R.H. Bolt Dies, 1¼", 1⅝" or 1½", Dies, H.S. Steel, per set, each size		1 lb.
N.C. 1⅝", 1¾" or 2" R.H. Bolt Dies, H.S. Steel, per set, each size		1 lb.
1 Set ½" or ¾" Electrical Conduit Dies, H.S. Steel, per set, each size		1 lb.
1 Set 1", 1¼", 1½" or 2" Electrical Conduit H.S. Steel, per set, each size		1 lb.
1 Set ½" or ¾" L.H. Pipe Dies, H.S. Steel, per set, each		1 lb.
1 Set 1", 1¼", 1½" or 2" L.H. Pipe Dies, H.S. Steel, per set, each size		1 lb.

See Separate Price List

* When ordering specify voltage machine to be wired for.

2" HIGH SPEED POWER MACHINE

With Quick Acting Collet Chuck

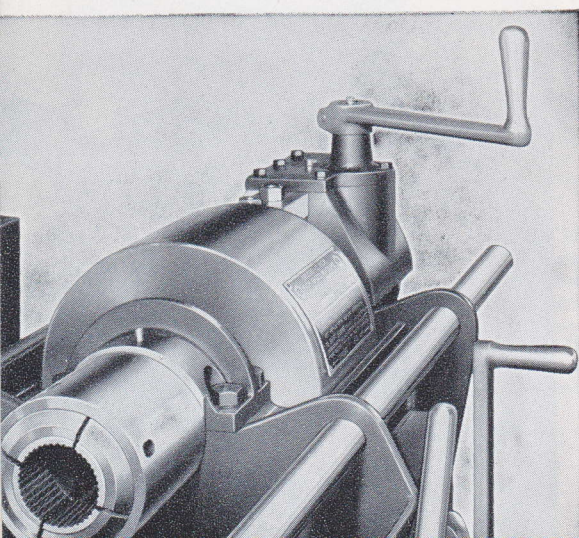
A machine designed for use where high production is important.

This machine is the same as the 2" High Speed described above, except equipped with quick acting collet chuck controlled by lever located within easy reach of the operator's right hand. A push to the rear closes the chuck. A pull to the front opens the jaws. Separate set of chuck pads furnished for each size and change from one size to another easily and quickly made.

Measuring device can be furnished which permits the operator to cut pipe all the same length without measuring each piece. It greatly increases the production of this fast, efficient machine.

Machine with 220-440 volt 3 phase 60 cycle Motor	
Special Measuring Device up to 24"	
Dies and Cutters same as above	

See Separate
Price List





No. 1-2-4 POWER PIPE MACHINE

A high speed, high production power pipe machine to cut, thread and ream pipe up to 4" inclusive.

Capacity— $\frac{1}{2}$ " to 4" Pipe

$\frac{3}{8}$ " to 2" Bolts

$\frac{1}{2}$ " to 4" Conduit

**Threads 4" Pipe in 42 Seconds.
Cuts off 4" Pipe in 9 Seconds.**

ALL STEEL FRAME—maximum strength and minimum weight. Bed is strong, rigid and unusually deep. Bed and head stock one unit assuring strength and perfect alignment.

THREADING—Separate set of dies for each size pipe assuring maximum die service and perfect threads. 2" pipe threaded in 18 seconds, 3" in 30 seconds, 4" in 42 seconds. Even faster speeds are possible. Thread length indicator shows instantly the length of thread being cut.

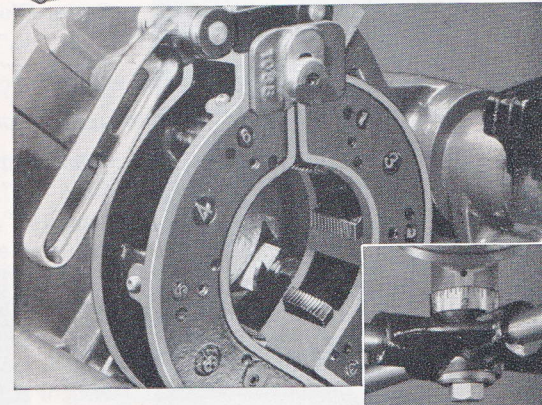
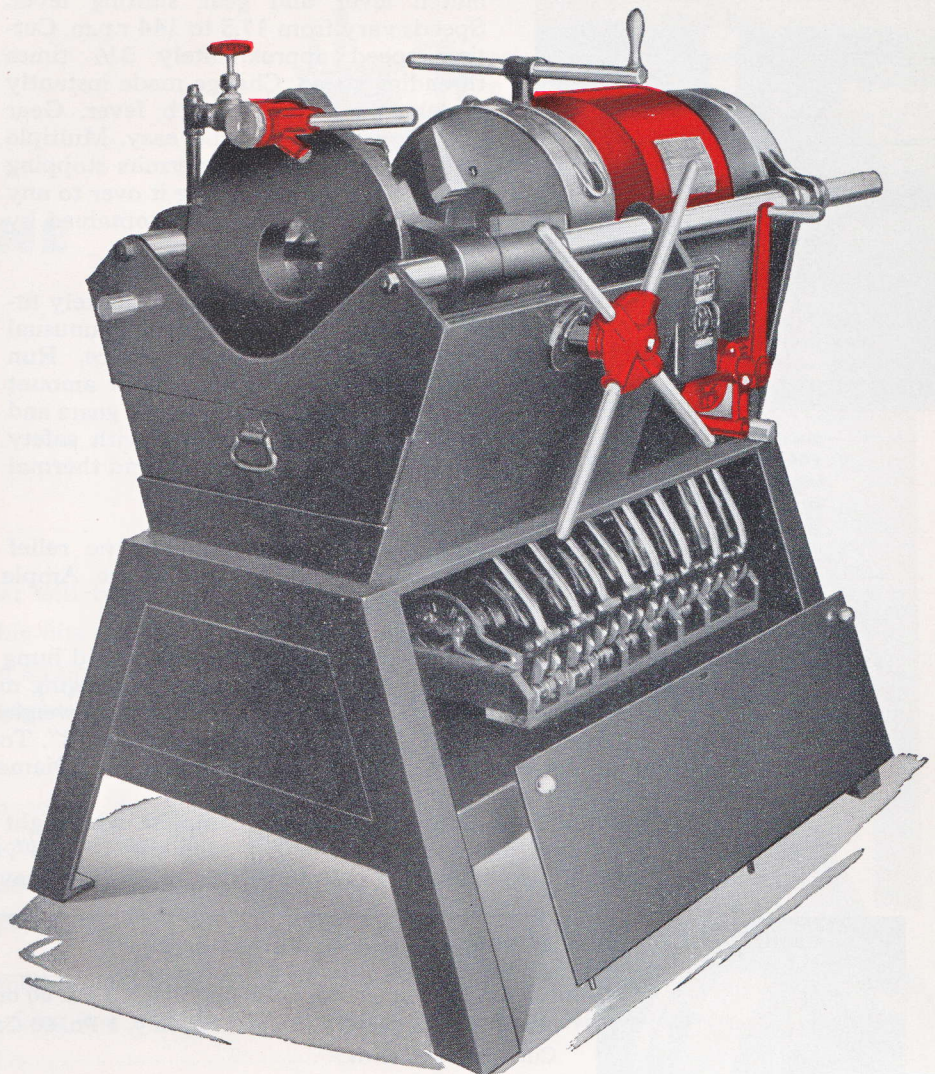
DIE HEADS & DIES—Separate quick-opening hinge type die head for each size pipe. No die movement in slots, thus assuring long wear. Unusual amount of chip clearance. Dies adjustable. Instant change of die heads from one size to another. Separate set of dies for each size pipe assures proper die clearance, helix angle and smooth accurate threads. Rake type, high speed steel and easily sharpened when dull.

CUTTING—Cutter head with four double-edged high speed steel knives cutting simultaneously makes this the fastest cutting off 1" to 4" pipe machine. 2" pipe cut off in $3\frac{1}{2}$ seconds, 3" in 7 seconds and 4" in 9 seconds. Knives are fed by ratchet handle, and easily reground when dull. Double-edge blades may be turned over when one edge becomes dull, and the sharp edge used. A nipple as short as $4\frac{1}{2}$ " can be cut without special nipple chuck.

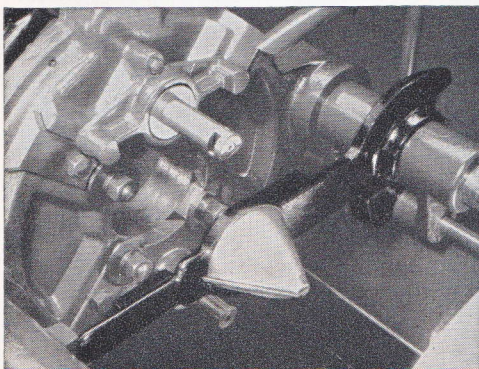
REAMING—Cone type single blade reamer mounted on an arm, and is swung into position and fed by carriage feed wheel. Quick, clean reaming. Blade can be reground when dull or replaced.

Special reaming and chamfering tool with holder reams the pipe and chamfers and bevels the outer edge.

CHUCKS—Two, front and rear, 14" three-jaw universal type chucks. Throwout fingers will remove wrench from chuck, if left in by mistake. Rear chuck fitted with special chuck jaws for holding flanges or fittings, and pipe tong supports are provided for holding pipe tongs.

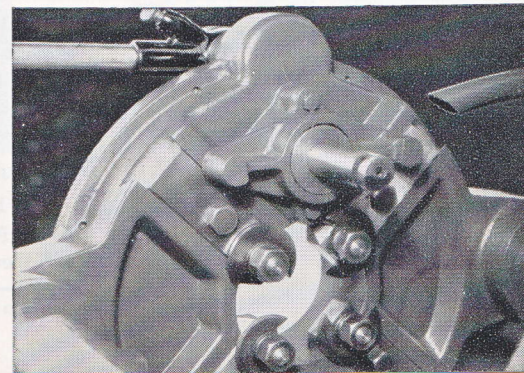


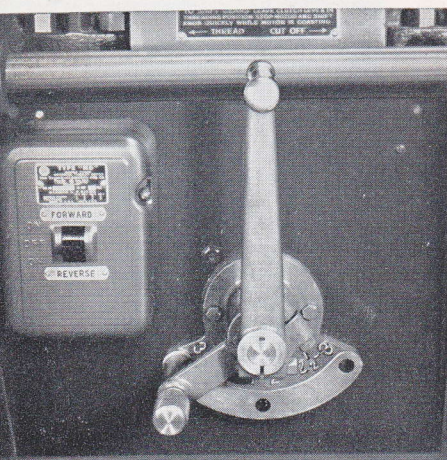
Separate Die Head and Dies for each size. Instant die change. Thread length gauge on carriage feed wheel.



Reamer mounted on arm and fed by the carriage feed wheel. Blade is replaceable at small cost or can be reground.

Four High Speed Steel Cutter Knives scroll fed. Cuts fast and smooth, leaving a straight square end cut. Knives can be easily reground when dull.





Six Spindle Speeds, 17.5 to 144 r.p.m. through one clutch lever and gear shifting lever. Easy and positive control. Electrical reverse.

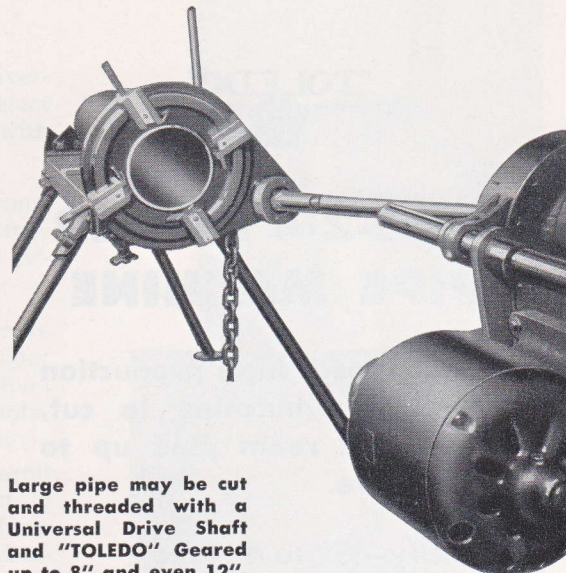
CONTROLS—Six spindle speeds with one clutch lever and gear shifting lever. Speeds vary from 17.5 to 144 r.p.m. Cutting speed approximately 3½ times threading speed. Change made instantly merely by shifting clutch lever. Gear shifting very simple and easy. Multiple disc clutch with brake permits stopping spindle instantly or easing it over to any desired position. Reverse is obtained by throwing the switch to reverse.

GEARS—Machine cut and accurately fitted, amply strong to withstand unusual shocks, and long, hard service. Run smoothly in an oil bath. Proper amount of oil in gear case lubricates all gears and spindle. Machine equipped with safety friction gear, friction clutch and thermal overload circuit breaker.

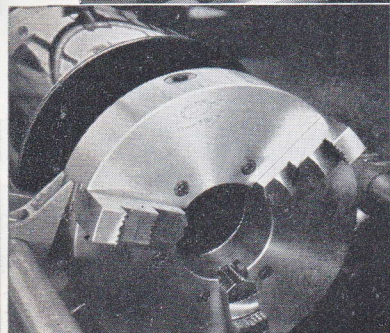
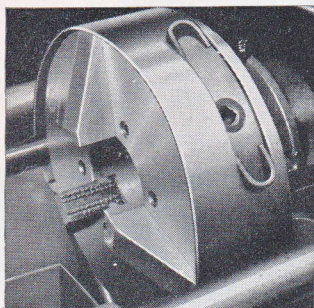
OIL PUMP—Centrifugal type, no relief or check valves, will pass chips without clogging or damage. Ample flow assures proper oiling. Flow continuous and without waste. Chip drawer large and deep.

MOTOR—3 H.P. heavy duty with surplus reserve power and hung on rear of machine, readily accessible. All 3 phase motors used on either 220 or 440 volts by merely changing motor leads. When ordering or requesting quotation, always give complete current specifications. Machine weighs 1750 lbs. net. Approximate shipping weight 2500 lbs. Floor space 35" x 46". Overall dimensions 40" x 58". Total height 56", and height to center of chuck 38½". Maximum distance from chuck to cut-off tool is 11". Diameter of spindle bore 4¾".

REGULAR EQUIPMENT—Machine is furnished complete with eight separate quick opening die heads and eight sets of high speed steel dies, a separate set for each size 1" to 4", set of high speed steel cutter knives, reamer, wrenches, adjustable pipe support, 5 gallons cutting oil, 3 H.P. heavy duty motor.



Large pipe may be cut and threaded with a Universal Drive Shaft and "TOLEDO" Geared up to 8" and even 12".



Two 14" Universal Geared Chucks. Rear chuck with step jaws for making up fittings. Users say the No. 1-2-4 pipe machine is the most efficient 4" machine—so easy to operate—so easy and quick to change dies and its productive capacity is amazing.

Machine Complete, Extra Parts

	Price	Approx. Ship. Wt.
No. 1-2-4 Complete with 220-440 Volt,* 3 Ph. 60 or 50 Cycle Motor	2350	lbs.
No. 1-2-4 Complete with 230 Volt only, 1 Ph. 60 Cycle Motor	2350	lbs.
Cutter Blade, each	1	lb.
Cutter Blades, per set of 4	1	lb.
1" or 1¼" Q.O. Die Head only, no Dies, each	25	lbs.
1½" or 2" Q.O. Die Head only, no Dies, each	28	lbs.
2½" or 3" Q.O. Die Head only, no Dies, each	31	lbs.
3½" or 4" Q.O. Die Head only, no Dies, each	32	lbs.
1 set 1" or 1¼" R.H. H. S. Steel Pipe Dies, each size	1	lb.
1 set 1½" or 2" R.H. H. S. Steel Pipe Dies, each size	2	lbs.
1 set 2½", 3", 3½" or 4" R.H. H. S. Steel Pipe Dies, each size	3	lbs.
Adjustable Pipe Support	62	lb.s
Adapter Plate to hold small Q.O. Die Head	10½	lbs.
Special Chuck Jaw Plates, for ⅜" to 7/8" Rod	3	lbs.
N.C. or N.F. Bolt Dies, ⅜" to 1½", Carbon Steel, for small ½"-¾" Q.O. Die Head, per set, each size	1	lb.
N.C. or N.F. 1¼", 1⅜" or 1½" H.S. Steel Bolt Dies for small size 1"-1¼" Q.O. Die Head, per set	1	lb.
N.C. R.H. Bolt Dies, 1¼" to 1½", H.S. Steel, for No. 1-2-4, 1"-1¼" Q.O. Die Head, per set, each size	1	lb.
N.C. Bolt Dies, 1⅝", 1¾" or 2", H.S. Steel, for No. 1-2-4, 1½"-2" Q.O. Die Head, per set, each size	1	lb.
1 set 1" or 1¼" R.H. High Speed Steel Conduit Dies, each size	1	lb.
1 set 1½" or 2" R.H. High Speed Steel Conduit Dies, each size	2	lbs.
1 set 2½", 3", 3½" or 4" R.H. High Speed Steel Conduit Dies, each size	3	lbs.
½"-¾" Small Q.O. Die Head only, no Dies, each	6¼	lbs.
1"-1¼" Small Q.O. Die Head only, no Dies, each	6¼	lbs.
1 set ½" or ¾" R.H. H.S. Steel Dies, for Small Die Head, per set, each size	1	lb.
Universal Drive Shaft	24	lbs.
No. 4 Nipple Chuck, 1" to 4"	74	lbs.
No. 4 Special Reamer and Chamfering Blades with Holder	4	lbs.
No. 4 Reamer and Chamfering Blade, per pair	1	lb.

See Separate Price List

*When ordering specify voltage machine is to be wired for.



ROCK DRILL POWER MACHINE

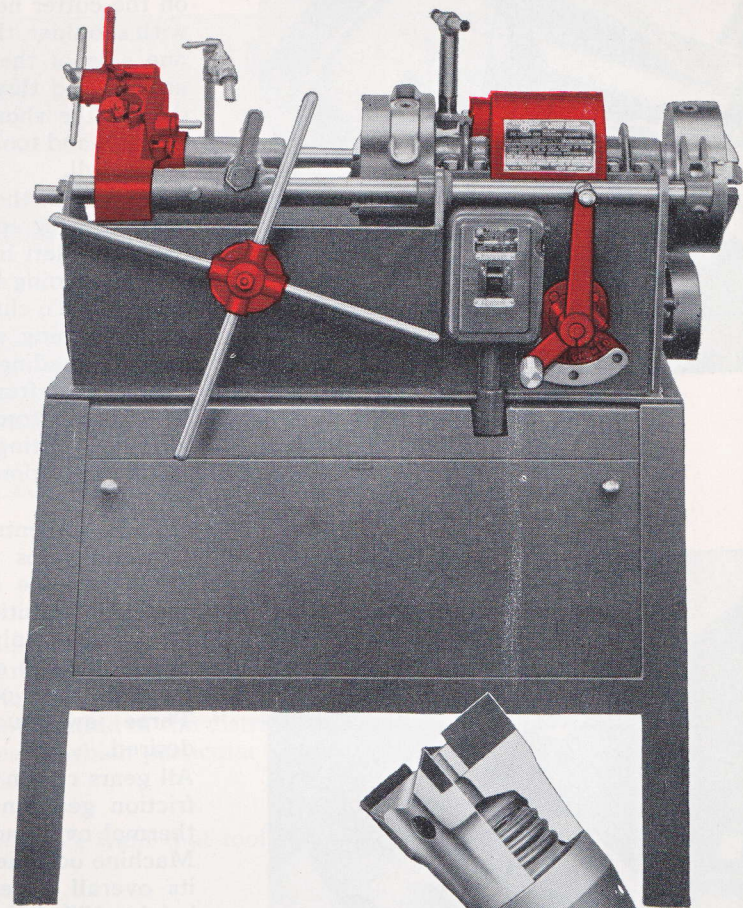
**TURNS, NECKS, FACES,
CHAMFERS, THREADS
AND RENEWS BROKEN
DRILL RODS USING
DETACHABLE BITS.**

A fast, high production power machine that will turn, thread and ream rock drill rods for detachable bits used in rock drill operations. It has been standard equipment for many years in conversion shops throughout the country.

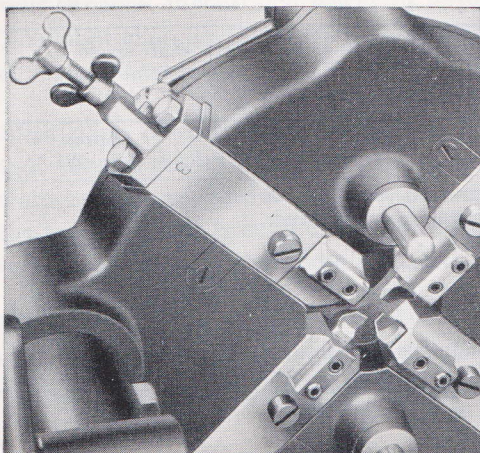
The machine is designed and built for shops where dependability and high production and precision work are required. It will handle this work easily and quickly, producing rods that will fit detachable bits perfectly.

Cutter head carries four cutters cutting simultaneously and doing all the necessary turning, facing, chamfering and necking that must be done before cutting the thread.

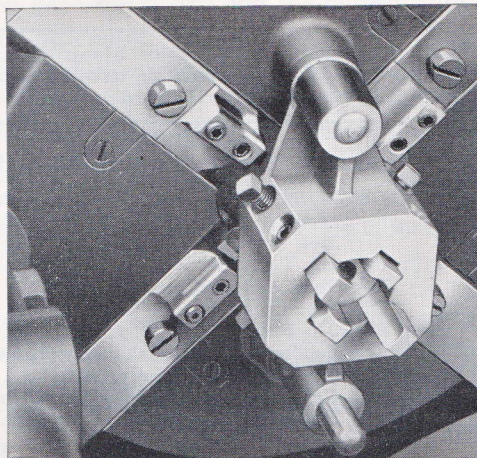
A box tool may also be furnished for turning the two diameters for rods with shoulders. A special stop permits operator to set tools to different diameters without further adjustment. A separate stop is furnished for each type of thread. A locking device at top of cutter head locks all cutters securely in any desired position. A special lock will hold carriage in any desired location.



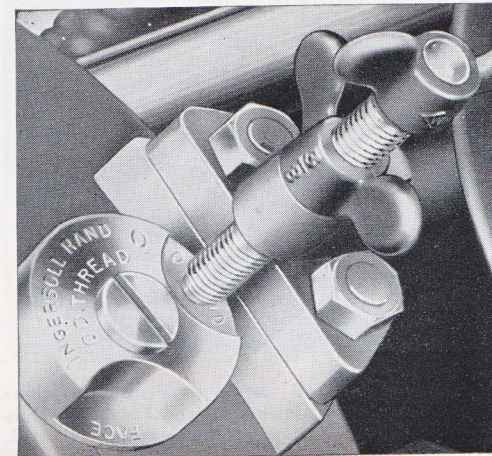
**Cutaway view
showing thread
produced on drill
rod with detachable bit.**



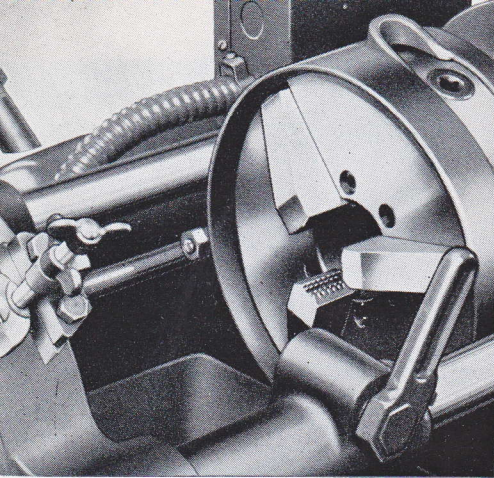
Cutter Head shows 4 cutters used to face and chamfer rods.



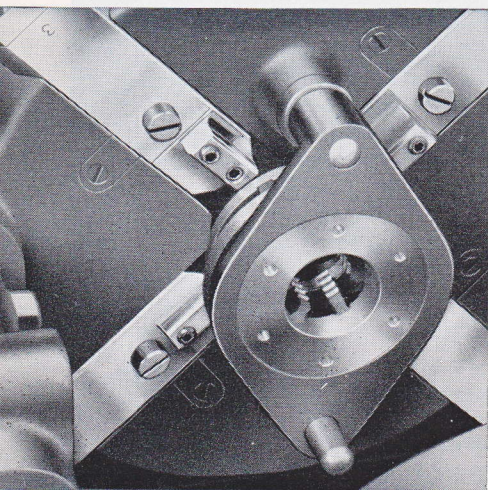
Box Tool for turning down rods for Timken threads and Ingersoll Rand "100" Series.



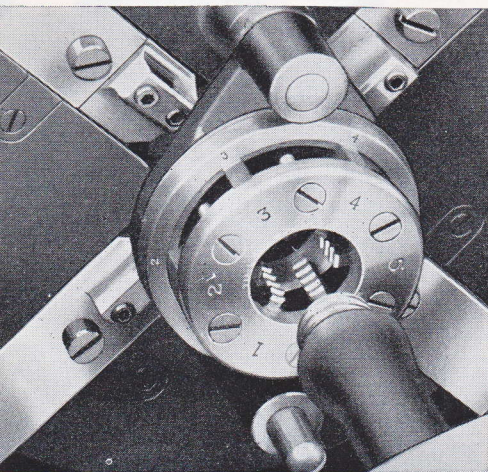
This is the stop for setting the cutter to proper size.



The Way-Lock Handle is up and the carriage securely locked on the ways. For turning operation.



Die Head mounted to cut the thread on the rod. Dies may be reground when dull.



Die Head turned over and has completed thread to shoulder, and has been backed off the completed thread.

Die head with six segments is mounted on the cutter head. When threading rod with shoulder, the thread is first cut with one side of the die. It is then turned around and threaded against the shoulder on the short lead of the segments. All dies and tools can be easily reground when dull.

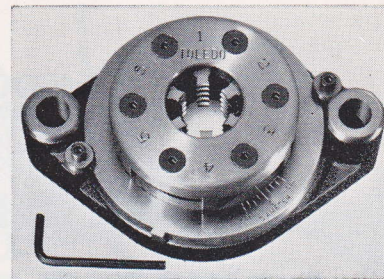
Machine has three threading speeds and three turning speeds. All detachable bit rods have left hand threads and threading and turning speeds are in the opposite direction. To change from right hand rotation turning speed to the lower left hand threading speed, just pull the clutch lever from one side to the other. To change from one speed to another, the gear shifting lever is placed on one of three positions—either high, medium or low.

Oil pump is centrifugal type and will pass dirt and chips without clogging. Telescopic oil line always holds oil spout in desired position.

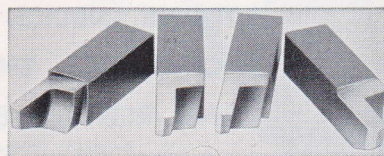
Two 2-jaw universal chucks are furnished, one on each end of the spindle. Wrench throw-out fingers are provided. Three jaw chucks can be supplied if desired.

All gears run in oil. Machine has safety friction gear, multiple disc clutch and thermal overload circuit breaker.

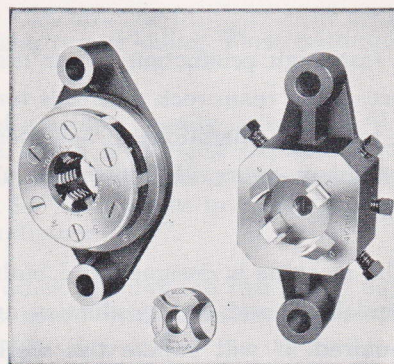
Machine occupies floor space 36" x 27", its overall dimensions 31" x 45", total height 47", height to center of chuck 38½". Net weight approximately 800 lbs. Motor is 1½ H.P.



Adjustable Die Heads with adjustment of plus or minus can be supplied.



A Set of Cutters for Facing, Turning, Necking and Chamfering Drill Rods.



Non-Adjustable Die Head and Dies, Box Tool and Cutters, and Special Stop shown here.

Toledo Rock Drill Rod Machine Threading and Turning Speeds in Feet per Minute

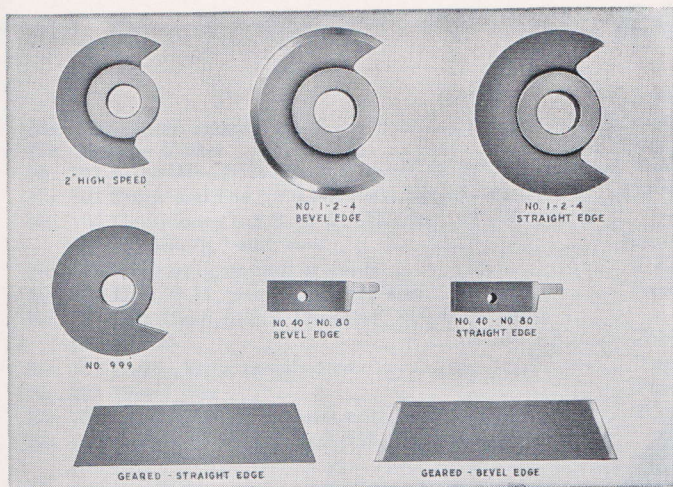
Diameter Inches	THREADING			TURNING		
	Low RPM	MED. RPM	HIGH RPM	Low RPM	MED. RPM	HIGH RPM
7/8	9.2	13.9	23.0	18.8	28.4	46.7
1	10.5	15.9	26.2	21.5	32.4	53.4
1 1/8	11.8	17.8	29.6	24.2	36.5	60.0
1 1/4	13.1	19.8	32.8	26.8	40.6	66.7
1 3/8	14.4	21.9	36.1	29.5	44.6	73.4
1 1/2	15.8	23.9	39.4	32.2	48.6	80.0
1 5/8	17.1	25.9	42.7	34.9	52.7	86.8
1 3/4	18.4	27.8	46.0	37.6	56.8	93.5

60 Cycle, 1750 R.P.M. motor. Motor chain drive ratio is 19 to 37. Clutch shaft speed is 898.6 R.P.M. Ratio threading to turning speed is 2.04. Use threading speed of about 20 feet per minute or less. Use turning speed of about 50 feet per minute.

Machine, Extra Parts	Price	Approx. Ship. Wt.
Rock Drill Rod Machine complete with 220-440 volt, 3 ph. 60 cycle, 1½ H.P. motor, but less all forming tools, die heads, dies, box tools and stops.....		1150 lbs.
Forming Tools, per set of 4, each.....	See Separate Price List	1 lb.
Die Head and Dies, per size, each.....		5 lbs.
Dies, per set, each.....		1 lb.
Stops, per size, each.....		1 lb.
Box Tool complete (for shoulder type threads only) per size, ea.		6 lbs.
Box Tool Holder only, each.....		4 lbs.
4 Turning Tools for Box Tool, per set, each.....		1 lb.
Reaming Tool for Box Tool, each.....		1 lb.
Adjustable Rod Support, each.....		30 lbs.

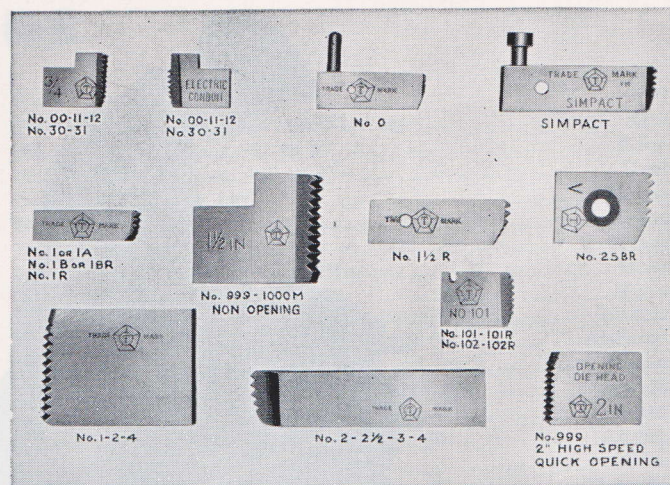
The machine is furnished complete with any combination of die heads, dies and forming tools as may be specified by the purchaser. Necessary wrenches and three gallons of oil furnished with each machine. Extra die heads, dies and forming tools can be furnished as required at additional price. A rod support for holding the ends of long lengths of rods can also be furnished as an extra.

When Ordering Machine, Box Tools, Forming Tools, Die Heads or Dies, Always Specify the Type of Thread to be Produced.



Cutter Blades

This illustration shows a single cutter blade for each of the "TOLEDO" Automatic and Geared Pipe Cutters and Power Pipe Machines. Four blades comprise a set for each tool or machine.



Genuine Dies

This illustration shows a single die segment of each of the various types used in "TOLEDO" pipe threaders. We show these illustrations so there may be no confusion in the mind of the distributor or user of "TOLEDO" tools as to which particular model any given set of dies may be for.

Our interest in any "TOLEDO" tool does not cease with its sale. We want that tool to do first-class work during its entire career.

Of course, there is nothing magical about "TOLEDO" tools or the parts thereof. They are made of the best possible materials, but even under normal and proper usage, they will wear out in time.

What we desire to emphasize is, that with proper attention to the instructions accompanying each tool same will last longer, do better work and generally give more satisfaction than if these suggestions are disregarded. We are glad to hear from users of "TOLEDO" tools relative to their condition, and to advise as to the best practice to pursue in their use.

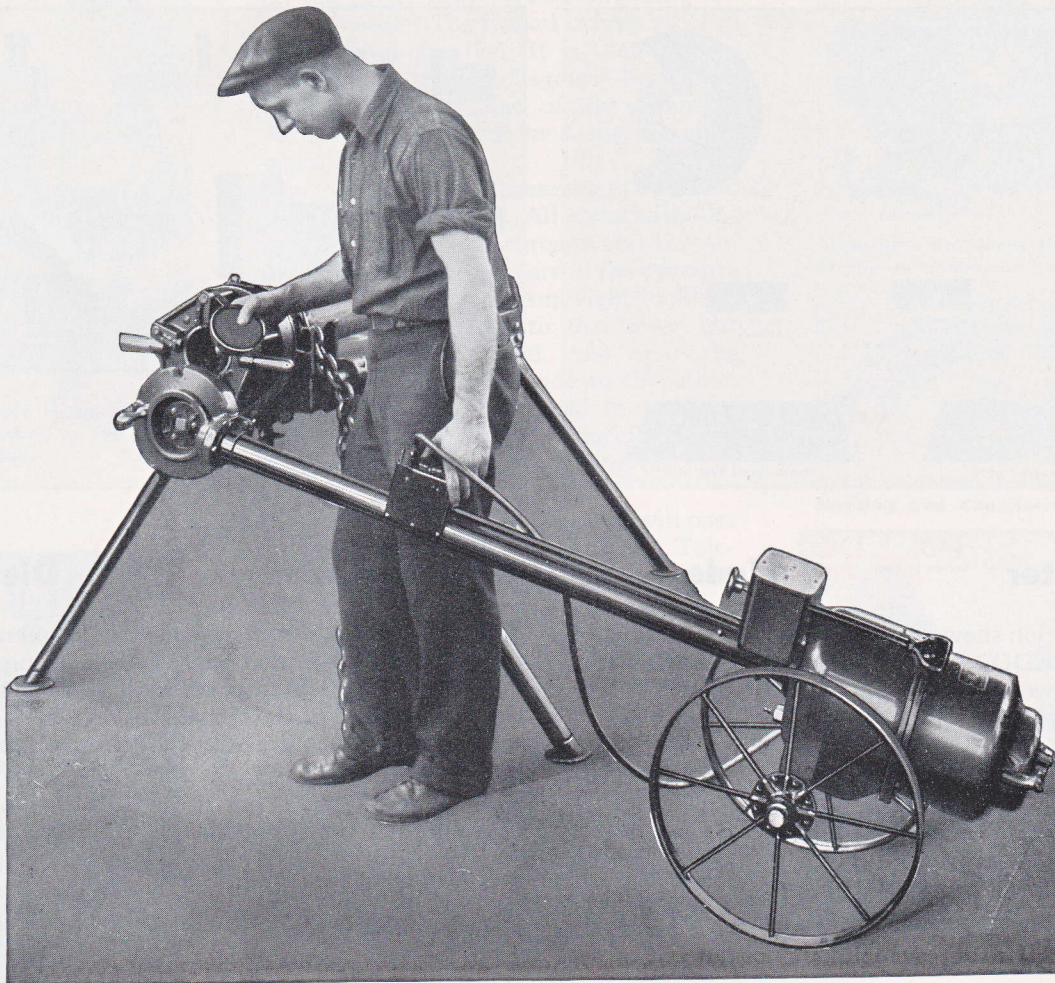
When In Need of Repairs

We will always be glad to have tools needing repairs sent in to us for this purpose; and to have dies that are dull sent in to us for regrinding. We must ask that, without exception, you prepay transportation charges. Our charges will always be as low as circumstances make possible. Your cost must of necessity include transportation expense, the catalog prices of any new parts furnished and the current rate for labor plus shop overhead. The labor charge will be based on actual time expended, but not less than 1/4 hour. Your cost will be lower if you accumulate several sets of dies or tools for regrinding or repairing than if you send a single set or a single tool.

Most parts of modern hand-operated threading tools are moving parts and subject to wear. Therefore when a tool needs a die head, pipe holder, or a gear part, the remaining portions of the tool undoubtedly have become worn through use and will need attention or perhaps replacement. In your own interest we suggest you examine the tool first. If it is worn out it wouldn't be worth the transportation and labor expense. When sending a tool body for repairs the dies should be included.

When a new die segment is wanted for a set of old dies, send us all the remaining parts of this set of dies referred to so that the new segments may be properly matched in and the completed set uniformly reground. One new sharp segment will not do good work with three old dull segments.

Where we advise return of various parts of the tools on the following pages, these suggestions are based on years of experience and with the sole thought of taking care of the customer's needs in the most economical and satisfactory manner for him, and we urge therefore that they be complied with.



There Are Many Things About "TOLEDO" Tools You Will Like.

You will like their simple construction. It assures you sturdy, long life tools that will give maximum service through the years.

You will like their compactness, light weight and ease of operation. There are no other tools to compare with "TOLEDOS" for easy cutting, and easy handling.

You will like the smooth, clean-cut, leak-proof threads "TOLEDOS" produce, which assure trouble-free jobs and satisfied customers.

Those who use "TOLEDOS" will tell you as they have told us, "TOLEDOS" are the finest pipe tools you can buy at any price.

If you wish to use power to handle those piping jobs "TOLEDO" power drives and "TOLEDO" power pipe machines will give you the lift you may need. "TOLEDO" power drives to operate the large geared tools—"TOLEDO" power pipe machines for pipe up to 4". You can't beat "TOLEDO" equipment—hand tools or power—for results.

CODE

Code

Pipe Wrenches, specify sizes.....Wrench

No. 20 Pipe Cutter.....Rung

No. 101 Adjustable Bolt Die Stocks, 1/4" to 5/8" full-mounted Time

No. 101 Stock and Die for 1 size only, specify size.....Token

No. 101 Complete (U.S.S. or S.A.E.) 1/4", 5/16", 3/8", 7/16",
1/2", 9/16" and 5/8" with box.....Rapid

No. 101 Stock only, no dies or guide.....Toad

No. 101 Dies, R.H., per set, specify size.....Toast

No. 101 Left Hand, U.S.S. Dies, 3/8", 1/2" or 5/8" only,
specify size.....Toby

No. 101 Guide, each, specify size.....Togs

No. 101 Metal Box.....Tope

No. 102 Stock and die for 1 size only, specify size.....Toga

No. 102 Complete (U.S.S. or S.A.E.) 3/4", 7/8" and 1"
with Box.....Rate

No. 102 Stock only, no dies or guide.....Tola

No. 102 Dies, R.H., per set, specify size.....Tore

No. 102 Left Hand, U.S.S. Dies, 3/4", 7/8" or 1" only,
specify size.....Topaz

No. 102 Guide, each, specify size.....Tory

No. 102 Metal Box.....Topic

No. 00 Threading Device, 1/8" to 3/4".....Abaiser

No. 11 Threading Device, 1/2" to 1 1/4".....Acero

No. 11 Threading Device, 1/8" to 1 1/4".....Ace

No. 12 Threading Device, 1/2" to 2".....Aden

No. 12 Threading Device, 1/8" to 2".....Adroit

No. 30 3-Way Threading Device, 3/8" to 3/4".....Acture

No. 31 3-Way Threading Device, 1/2" to 1".....Adam

No. 0 Threading Device, 1/8" to 3/4".....Abacus

No. 0 Threading Device, 1/4" to 3/4".....Aback

SIMPACT Threading Device, 1" to 2", with 3 jaws.....Simpact

SIMPACT Ratchet Threader, 1" to 2", with cam.....Ruff

No. 1 Threading Device, 1" to 2".....Abandon

No. 1A Threading Device, 1" to 2".....Abaft

No. 1A Special Conduit Threading Device.....Abrupt

No. 1R Threading Device, 1" to 2".....Opal

No. 1BR Threading Device, 1" to 2".....Arrow

No. 1 1/2R Threading Device, standard 8-thread, 2 1/2", 3".....Abash

No. 1 1/2R Threading Device, special 11 1/2-thread, 2",
2 1/2", 3".....Abase

Ratchet Boring Tool, only, without Bit.....Hawser

Expansive Bit for R.B. Tool.....Hansom

No. 2 Threading Device, 2 1/2" to 4".....Abate

No. 2BR Threading Device, 2 1/2" to 4".....Hut

No. 25BR Threading Device, 2 1/2" to 6".....Husk

No. 2 1/2 Threading Device, 5" to 6".....Conjure

No. 3 Threading Device, 5", 6", 8".....Abbey

No. 4 Threading Device, 10", 12".....Abbott

No. 40 Cutter, capacity 2" to 4".....Auto

No. 80 Cutter, capacity 5", 6" and 8".....Alien

No. 250 Cutter, capacity 2 1/2" to 6".....Hay

No. 300 Cutter, capacity 4 1/2" to 8".....Harem

No. 350 Cutter, capacity 7" to 10".....Hake

No. 400 Cutter, capacity 9" to 12".....Harvest

Standard Power Drive with A.C. Motor, 60 cycle S.P.....Lard

Standard Power Drive with A.C. Motor, 50 cycle S.P.....Ladder

115 Volt add code word.....Despond

230 Volt add code word.....Buoyant

Universal Power Drive with 1/2 H.P. 115 volt Motor.....Log

Universal Power Drive with 1/2 H.P. 230 volt Motor.....Logic

Super Power Drive with 2 1/2 H.P., 3 Phase, A.C. Motor.....Lumber

Special attachment for No. 1 Tool.....Library

No. 999 Standard Model Power Pipe Machine.....Jewell

No. 999 Super Model Power Pipe Machine (6 heads).....Bare

Universal Drive Shaft.....Journey

Nipple Chuck, 1/2" to 2" for No. 999 or 2" H.S. Machine.....Mink

Nipple Chuck, 1" to 4" for 1-2-4 Machine.....Mast

No. 2 Special Reamer and Chamfering Blade with Holder.....Marx

No. 2 Reamer and Chamfering Blade only.....Magic

No. 4 Special Reamer and Chamfering Blades with Holder.....Magog

No. 4 Reamer and Chamfering Blades, per pair.....Mag

Code

Pipe Support for No. 999 Pipe Machine.....Sate

No. 182 Pipe Reamer, 1/8" to 2".....Keen

No. 383 Pipe Reamer, 3/8" to 3".....Keel

No. 00 Vise, 1/8" to 1 1/2".....Hause

No. 0 Vise, 1/8" to 2 1/2".....Haunt

No. 3 Vise, 1/8" to 4 1/2".....Hawk

No. 9 Work Bench with Chain Vise.....Hum

No. 88 Power Drive.....Ruby

Ratchet, Complete for No. 00 Threading Device.....Abator

1/8" Die Head, complete with dies for No. 00.....Abscond

1/4" Die Head, complete with dies for No. 00.....Acacia

3/8" Die Head, complete with dies for No. 00.....Accede

1/2" Die Head, complete with dies for No. 00.....Actor

3/4" Die Head, complete with dies for No. 00.....Addict

No. 00 Steel Carrying Case.....Case

Set 1/8" R.H. Dies only for Nos. 00, 11 or 12.....Abderite

Set 1/4" R.H. Dies only for Nos. 00, 11 or 12.....Abdest

Set 3/8" R.H. Dies only for Nos. 00, 30, 11 or 12.....Abear

Set 1/2" R.H. Dies only for Nos. 00, 30, 31, 11 or 12.....Aberrant

Set 3/4" R.H. Dies only for Nos. 00, 30, 31, 11 or 12.....Able

Complete Set R.H. Dies only for No. 00 Threading Device.....Abhor

Ratchet complete for No. 11 Threading Device.....Accost

1/8" Die Head, complete with Dies for No. 11.....Acre

1/4" Die Head, complete with Dies for No. 11.....Act

3/8" Die Head, complete with Dies for No. 11.....Acknow

1/2" Die Head, complete with Dies for No. 11.....Accrue

3/4" Die Head, complete with Dies for No. 11.....Achime

1" Die Head, complete with Dies for No. 11.....Acquit

1 1/4" Die Head, complete with Dies for No. 11.....Acid

No. 11 Steel Carrying Case.....Annal

Set 1" R.H. Dies only for No. 11 or No. 12.....Addle

Set 1 1/4" R.H. Dies only for No. 11 or No. 12.....Apostle

Set 1 1/2" R.H. Dies only for No. 12.....Trawl

Set 2" R.H. Dies only for No. 12.....Tray

Complete Set R.H. Dies only for No. 11 Threading Device.....Apron

Ratchet Handle complete for No. 12 Threading Device.....Adder

1/8" Die Head with R.H. Dies for No. 12 Threading Device.....Aphis

1/4" Die Head with R.H. Dies for No. 12 Threading Device.....Adonis

3/8" Die Head with R.H. Dies for No. 12 Threading Device.....Adopt

1/2" Die Head with R.H. Dies for No. 12 Threading Device.....Anneal

3/4" Die Head with R.H. Dies for No. 12 Threading Device.....Adduce

1" Die Head with R.H. Dies for No. 12 Threading Device.....Adduct

1 1/4" Die Head with R.H. Dies for No. 12 Threading Device.....Adept

1 1/2" Die Head with R.H. Dies for No. 12 Threading Device.....Adieu

2" Die Head with R.H. Dies for No. 12 Threading Device.....Adjoin

Complete Set Dies for No. 12 Threading Device.....Trick

Complete Set R.H. Dies for No. 30 Threading Device.....Arab

Complete Set R.H. Dies for No. 31 Threading Device.....Arctic

Set 1/8" R.H. Dies for No. 0 Threading Device.....Abdalla

Set 1/4" and 3/8" R.H. Dies for No. 0 Threading Device.....Abdal

Set 1/2" and 3/4" R.H. Dies for No. 0 Threading Device.....Abdicate

Complete Set Right Hand Dies for No. 0 Threading
Device.....Abdomen

Set 1/8" Left Hand Dies for No. 0 Threading Device.....Abode

Set 1/4" Left Hand Dies for No. 0 Threading Device.....Abolish

Set 3/8" Left Hand Dies for No. 0 Threading Device.....Abrade

Set 1/2" Left Hand Dies for No. 0 Threading Device.....Abduce

Set 3/4" Left Hand Dies for No. 0 Threading Device.....Absorb

Complete Set Left Hand Dies for No. 0 Threading Device.....Abreast

Set 1" Dies for Nos. 1, 1A, 1R, or 1BR Threading Device.....Abide

Set 1 1/4" Dies for Nos. 1, 1A, 1R, or 1BR Threading Device.....Ability

Set 1 1/2" Dies for Nos. 1, 1A, 1R, or 1BR Threading Device.....Above

Set 2" Dies for Nos. 1, 1A, 1R, or 1BR Threading Device.....Abrogate

No. 1 or No. 1A Dies for Threading Brass Pipe,
add code word.....Brass

Complete Set Dies for Nos. 1, 1A, 1R, or 1BR Threading
Device.....Absolute

Set 2 1/2" Dies, 8-pitch for No. 1 1/2R Threading Device.....Absurd

Set 3" Dies, 8-pitch for No. 1 1/2R Threading Device.....Abundant

Complete Set Dies for No. 1 1/2R Threading Device of 8-pitch.....Air

Set 2" 11 1/2 Pitch Dies for No. 1 1/2R.....Absolve

CODE

	Code
Set 2 1/2" 11 1/2 Pitch Dies for No. 1 1/2 R.....	Abstain
Set 3" 11 1/2 Pitch Dies for No. 1 1/2 R.....	Abstinent
Complete Set Dies for No. 1 1/2 R Threading Device of 11 1/2-pitch	Abstruse
Set 2 1/2" Dies for No. 2 or No. 2BR Threading Device.....	Abuse
Set 3" Dies for No. 2 or No. 2BR Threading Device.....	Accord
Set 3 1/2" Dies for No. 2 or No. 2BR Threading Device.....	Acme
Set 4" Dies for No. 2 or No. 2BR Threading Device.....	Acorn
Complete Set Dies for No. 2 or No. 2BR Threading Device.....	Action
Set Dies for No. 25 or No. 25BR Threading Device.....	Hemp
Set 5" Dies for No. 2 1/2 or No. 3 Threading Device.....	Adequate
Set 6" Dies for No. 2 1/2 or No. 3 Threading Device.....	Adhere
Complete Set R.H. Dies for No. 2 1/2 Threading Device.....	Connive
Set 8" Dies for No. 3 Threading Device.....	Afflict
Complete Set Dies for No. 3 Threading Device.....	Assured
Set 10" Dies for No. 4 Threading Device.....	Afraid
Set 12" Dies for No. 4 Threading Device.....	After
Complete Set Threading Dies for No. 4 Threading Device.....	Agent
Set 10" Plain Milling Dies for No. 4 Threading Device.....	Against
Set 12" Plain Milling Dies for No. 4 Threading Device.....	Agate
Cutter Blades, complete set for No. 40.....	Avon
Cutter Blades, complete set for No. 80.....	Alva
*Cutter Blades, each for Nos. 250, 300, 350 and 400.....	Haven
Cutter Blades, complete set for Nos. 250, 300, 350 and 400.....	Havoc
Set 1/2" R.H. Non-Opening Dies for No. 999 Pipe Machine	Cimon
Set 3/4" R.H. Non-Opening Dies for No. 999 Pipe Machine	Cinch
Set 1" R.H. Non-Opening Dies for No. 999 Pipe Machine	Cinder
Set 1 1/4" R.H. Non-Opening Dies for No. 999 Pipe Machine	Cider
Set 1 1/2" R.H. Non-Opening Dies for No. 999 Pipe Machine	Churn
Set 2" R.H. Non-Opening Dies for No. 999 Pipe Machine	Chute
Complete Set 1/2" to 2" R.H. Non-Opening Dies for No. 999 Pipe Machine	Alarm
†Cutter Blade, for No. 999 Pipe Machine.....	Jib
Cutter Blades, per set of four, for No. 999 Pipe Machine....	Jitney
1/8"-3/4" Quick-Opening Die Head only, No. 999 or 2" High Speed	Barge
1"-1 1/4" Quick-Opening Die Head only, No. 999 or 2" High Speed	Bark
1 1/2"-2" Quick-Opening Die Head only, No. 999 or 2" High Speed	Barn
Set 1/8" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Tack
Set 1/4" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Tackle
Set 3/8" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Tact
Set 1/2" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Tactic
Set 3/4" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Tail
Set 1" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Talk
Set 1 1/4" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Tame
Set 1 1/2" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Tallow
Set 2" Quick-Opening Dies, R.H., No. 999 or 2" High Speed	Tally

* When ordering single cutter blades always specify whether straight or bevel edge required.

† When ordering single cutter blades always specify whether "A" or "B" required.

NON-OPENING DIE HEADS WITH DIES FOR No. 999 MACHINE

1/8" Die Head Complete with R.H. Dies for No. 999 Machine	Jer
1/4" Die Head Complete with R.H. Dies for No. 999 Machine	Jerid
3/8" Die Head Complete with R.H. Dies for No. 999 Machine	Jerboa
1/2" Die Head Complete with R.H. Dies for No. 999 Machine	Jay
3/4" Die Head Complete with R.H. Dies for No. 999 Machine	Jail
1" Die Head Complete with R.H. Dies for No. 999 Machine	Jape
1 1/4" Die Head Complete with R.H. Dies for No. 999 Machine	Jarl
1 1/2" Die Head Complete with R.H. Dies for No. 999 Machine	Janus
2" Die Head Complete with R.H. Dies for No. 999 Machine	Jaunt

Did you ship as promised.....Benefit
Duplicate our (my) order of (number).....Beware
F.O.B. destination.....Blank
F.O.B. Toledo.....Blotting
Has our (my) order of.....been shipped.....Cannor
Have telegraphed tracer to locate shipment and expedite
delivery.....Celebrity
How soon after receipt of order can you furnish.....Chalky
Increase our (my) order of.....Comfort
Rush delivery in every manner possible.....Command
Send tracer for shipment of.....Condemn
Ship C.O.D.....Correct
Ship by Express.....Counter
Ship by fast freight and hurry through by wire tracer...Debate
Ship by freight.....Desperate
Ship Sight Draft attached to Bill of Lading.....Discourse
When will you ship our (my) order.....Edify

STANDARD PIPE INFORMATION—Black and Galvanized

Nominal Size	External Diameter	Internal Diameter	Threads per-inch
1/8" .....	.405	.269	.27
1/4" .....	.540	.364	.18
3/8" .....	.675	.493	.18
1/2" .....	.840	.622	.14
3/4"	1.050	.824	.14
1"	1.315	1.049	11 1/2
1 1/4"	1.660	1.380	11 1/2
1 1/2"	1.900	1.610	11 1/2
2"	2.375	2.067	11 1/2
2 1/2"	2.875	2.469	8
3"	3.500	3.068	8
3 1/2"	4.000	3.548	8
4"	4.500	4.026	8
4 1/2"	5.000	4.506	8
5"	5.563	5.047	8
6"	6.625	6.065	8
7"	7.625	7.023	8
8"	8.625	8.071	8
8"	8.625	7.981	8
9"	9.625	8.941	8
10"	10.750	10.192	8
10"	10.750	10.136	8
10"	10.750	10.020	8
11"	11.750	11.000	8
12"	12.750	12.090	8
12"	12.750	12.000	8

